

PHASE V SYSTEM IMPROVEMENTS DISTRIBUTION UPGRADES CONTRACT "J"

JERSEY COUNTY RURAL WATER COMPANY JERSEY & MACOUPIN COUNTIES, ILLINOIS

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FACILITY NUMBER: IL 0835300
IEPA PERMIT NUMBER:

DATE: APRIL 16, 2021

INDEX OF SHEETS

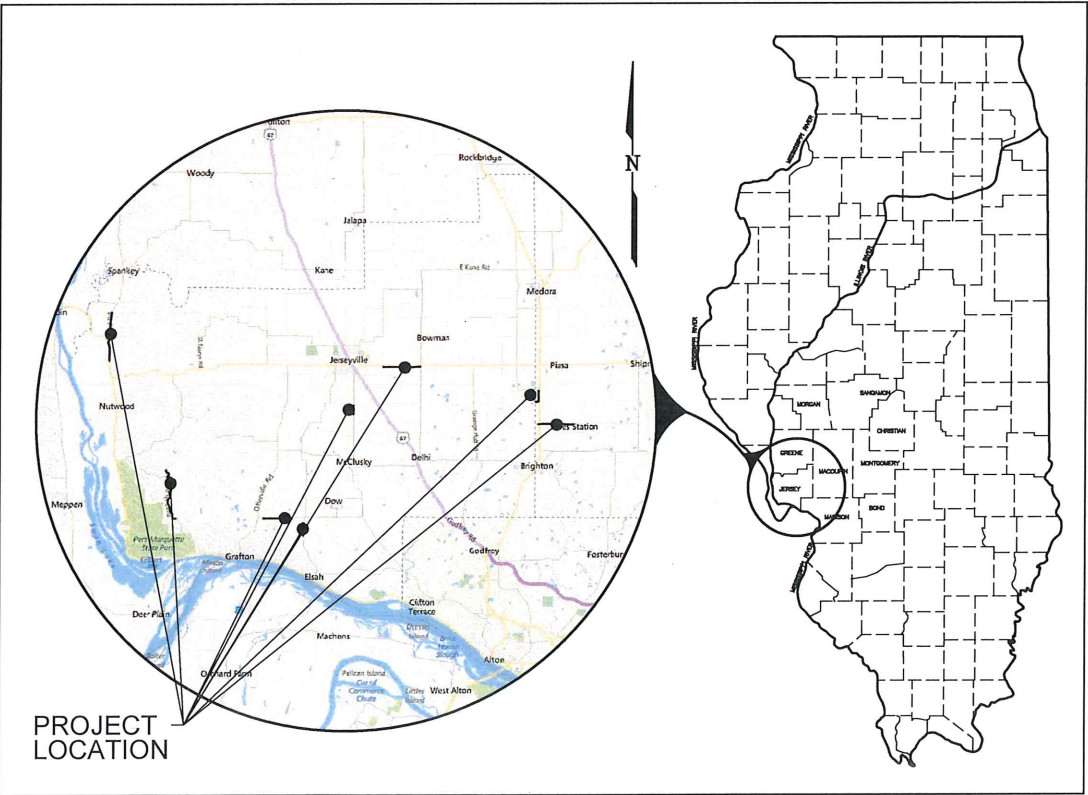
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21	SWPPP DETAILS



Contractor to contact J.U.L.I.E. prior to any excavation or demolition for the location of any pipes, cables, lines, mains, etc. The contractor shall also coordinate any disconnection required with the various utility companies and/or governmental agencies serving the site.

Underground facilities, structures and utilities have been plotted from available surveys and records. Their locations must be considered to be approximate only. It is possible there may be others, the existence of which is not presently known or shown. It is the contractor's responsibility to determine their existence and exact location and to avoid damage thereto.

DIG LOG#



Seth W Elliott
SETH W. ELLIOTT
REG. ILLINOIS P.E. #62788
EXP. NOVEMBER 30, 2021



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ENGINEERS-SURVEYORS
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DESIGN FIRM NUMBER 184-002692, EXPIRES APRIL 30, 2023

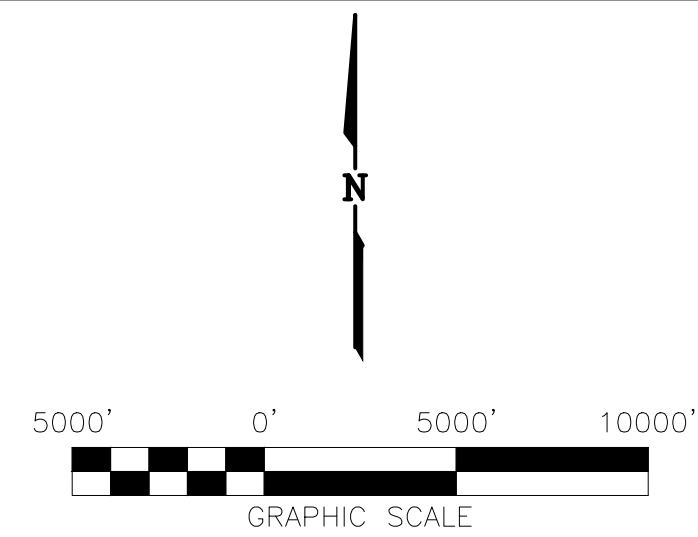
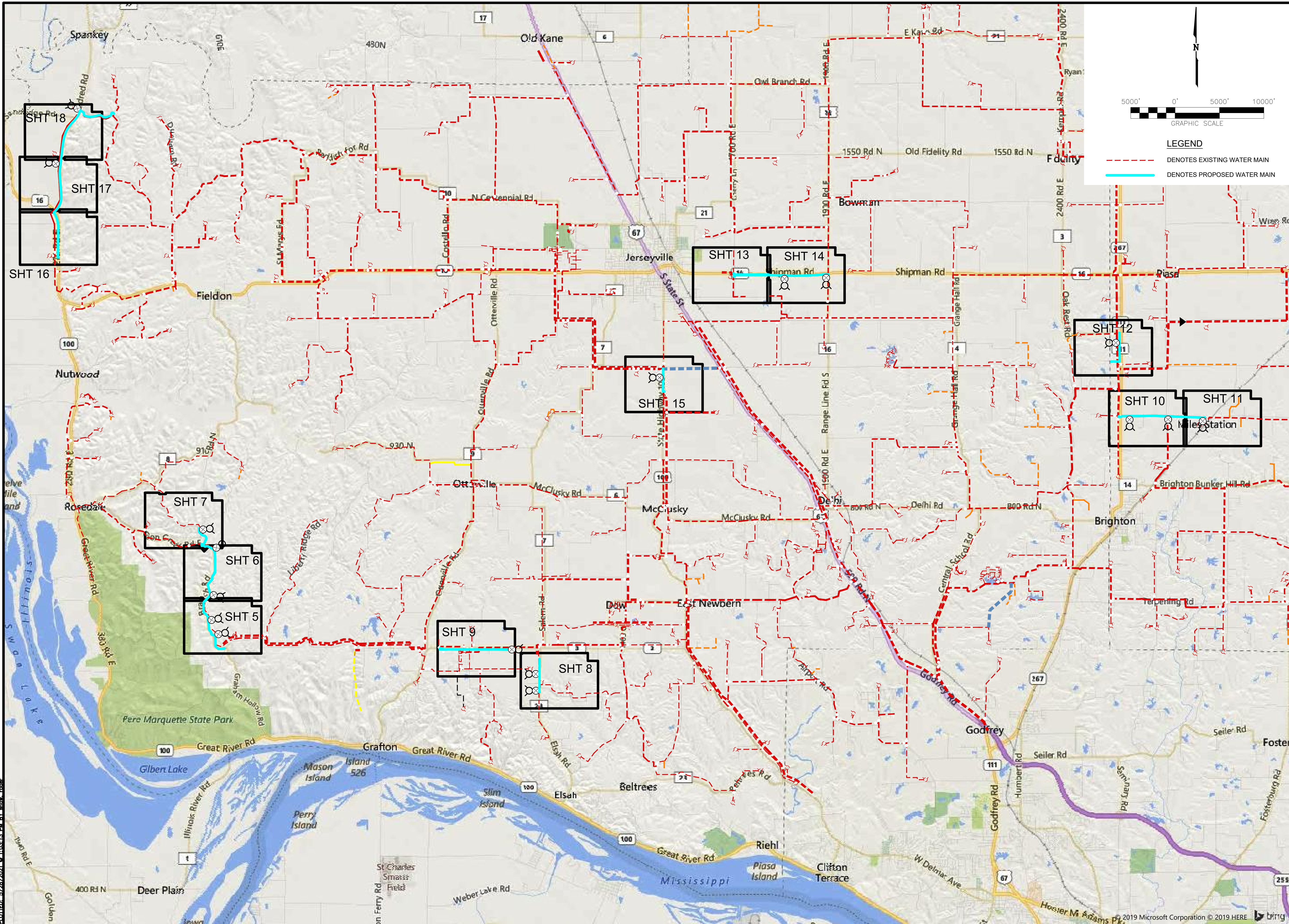
1004 STATE HWY. 16
JERSEYVILLE, ILLINOIS 62052
PHONE NO. (618) 498-6418
FAX NO. (618) 498-6410

838 EAST McCORD STREET
CENTRALIA, ILLINOIS 62801
PHONE NO. (618) 533-6525
FAX NO. (618) 533-6652

310A VISION DRIVE
COLUMBIA, ILLINOIS 62236
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FAX NO. (618) 281-8290

1929 RICHARDSON ROAD
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PHONE NO. (636) 464-3610
FAX NO. (636) 464-2059

P:\Drawings\Water\J\0139 - phase v system improvements\04\dwg\general\sample and sheet location plan.dwg
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LEGEND

- DENOTES EXISTING WATER MAIN
- DENOTES PROPOSED WATER MAIN

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MO: 001310, EXPIRES DECEMBER 31, 2021

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**PHASE V SYSTEM IMPROVEMENTS
DISTRIBUTION UPGRADES
CONTRACT "J"
SHEET LOCATION PLAN**
JERSEY COUNTY RURAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: KDN
CHECKED BY: KEW
APPROVED BY: SWE
HORIZONTAL SCALE:
1"=5000'
VERTICAL SCALE:
N/A
PROJECT NO.
00139-4100
DATE:
04/16/21
SHEET NO.
2
2 OF 21 SHEETS

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LEGEND	
	DENOTES TRACER WIRE ACCESS POINT
	DENOTES SAMPLING STATION
	DENOTES ADDITIONAL RESTRICTIONS IN EASEMENT
	DENOTES MECHANICAL JOINT REDUCER. SIZE INDICATED ON PLANS
	DENOTES PROPOSED LINE STOP
	DENOTES PROPOSED AIR RELEASE VALVE
	DENOTES EXISTING AIR RELEASE VALVE
	DENOTES EXISTING FLUSH/FIRE HYDRANT
	DENOTES EXISTING GATE VALVE
	DENOTES PROPOSED FLUSH/FIRE HYDRANT
	DENOTES PROPOSED GATE VALVE
	DENOTES PROPOSED FLUSH/FIRE HYDRANT & GATE VALVE
	DENOTES SECTION LINE
	DENOTES PROPERTY LINE
	DENOTES PROPOSED WATER LINE SIZE INDICATED ON PLANS.
	DENOTES EXISTING WATER LINE SIZE INDICATED ON PLANS.
	DENOTES CUSTOMER SERVICE CONNECTION SAMPLING LOCATION WITH SAMPLE NUMBER
	DENOTES WATER METER WITH PRESSURE REGULATOR WITH INDEX TO CUSTOMERS NAME AND CONTRACT NUMBER
	DENOTES WATER METER WITH PRESSURE REGULATOR WITH INDEX TO CUSTOMERS NAME AND CONTRACT NUMBER TO BE RECONNECTED
	DENOTES WATER METER WITHOUT PRESSURE REGULATOR WITH INDEX TO CUSTOMERS NAME AND CONTRACT NUMBER
	DENOTES FLUSH HYDRANT SAMPLING LOCATION WITH CORRESPONDING SAMPLE NUMBER
	DENOTES CENTER OF SECTION
	DENOTES SECTION NUMBER
	DENOTES SECTION CORNER
	DENOTES LAND HOOK
	DENOTES OWNERSHIP OF PRIVATE PROPERTY
	DENOTES OWNERSHIP OF PRIVATE PROPERTY FROM WHOM EASEMENTS ARE SECURED. (ETAL=AND OTHERS) WITH EASEMENT NUMBER
	DENOTES CHANGE OF WATER LINE SIZE, CLASS, AND MATERIAL
	DENOTES TEMPORARY SEEDING AND MULCH THROUGH PROPERTY
	DENOTES PROPOSED CUT & CAP OF EXISTING WATER LINE
	DENOTES WELL
	DENOTES EXISTING TANK

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PHASE V SYSTEM IMPROVEMENTS
DISTRIBUTION UPGRADES
CONTRACT "J"
LEGEND AND NOTES
JERSEY COUNTY RURAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: KDN
CHECKED BY: KEW
APPROVED BY: SWE

HORIZONTAL SCALE:
N/A

VERTICAL SCALE:
N/A

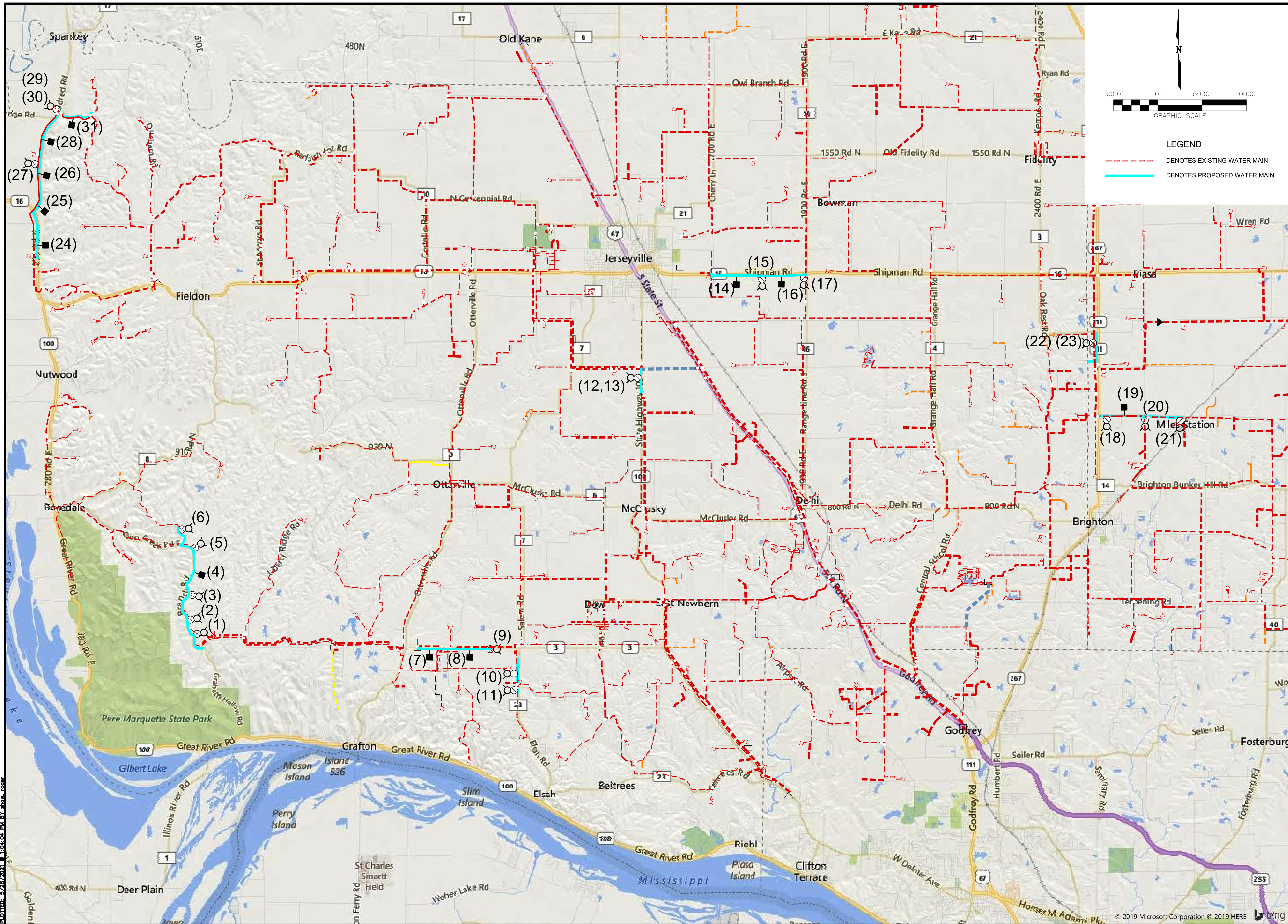
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00139-4100

DATE:
04/16/21

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PHASE V SYSTEM IMPROVEMENTS
DISTRIBUTION UPGRADES
CONTRACT "J"
SAMPLE PLAN

JERSEY COUNTY RURAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: KDN
CHECKED BY: KEW
APPROVED BY: SWE

HORIZONTAL SCALE:
1"=5000'

VERTICAL SCALE:
N/A

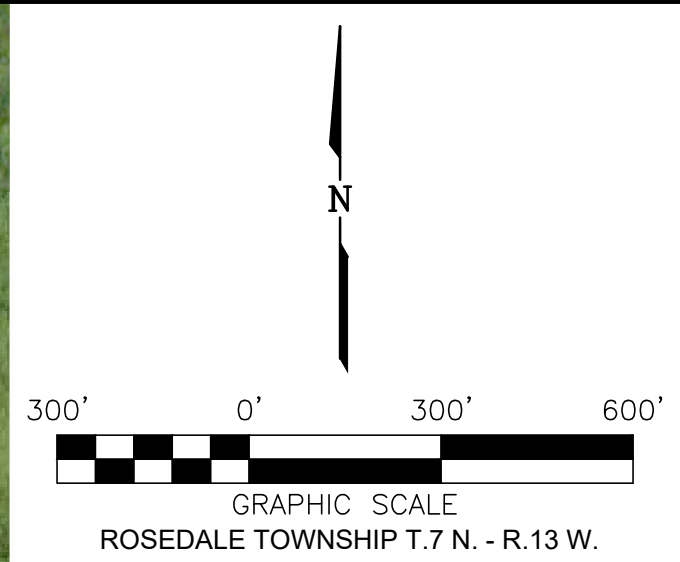
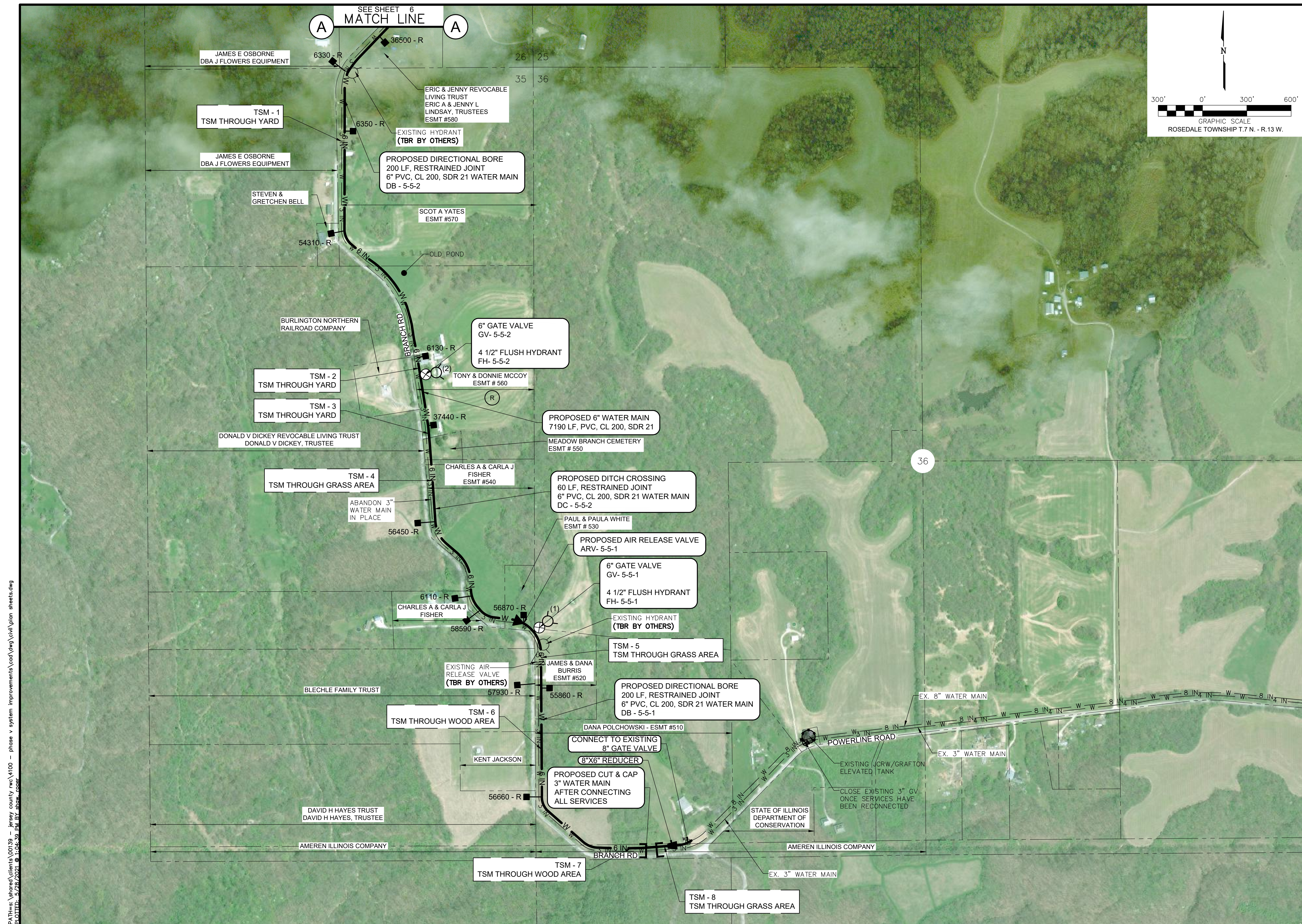
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04/16/21

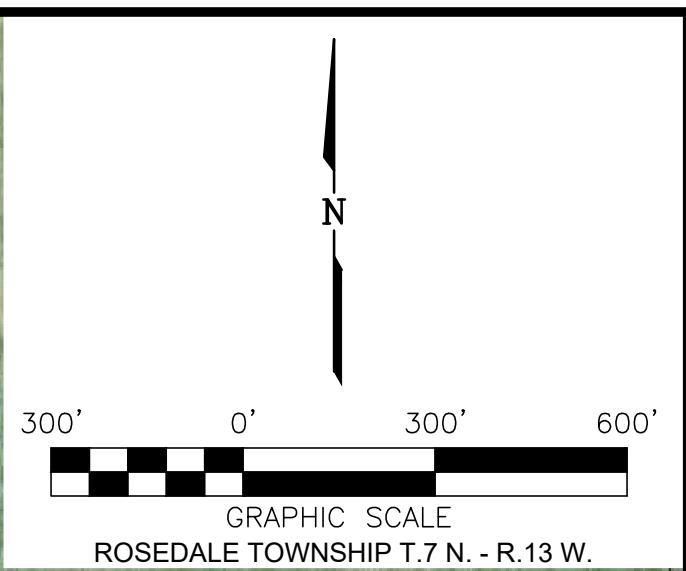
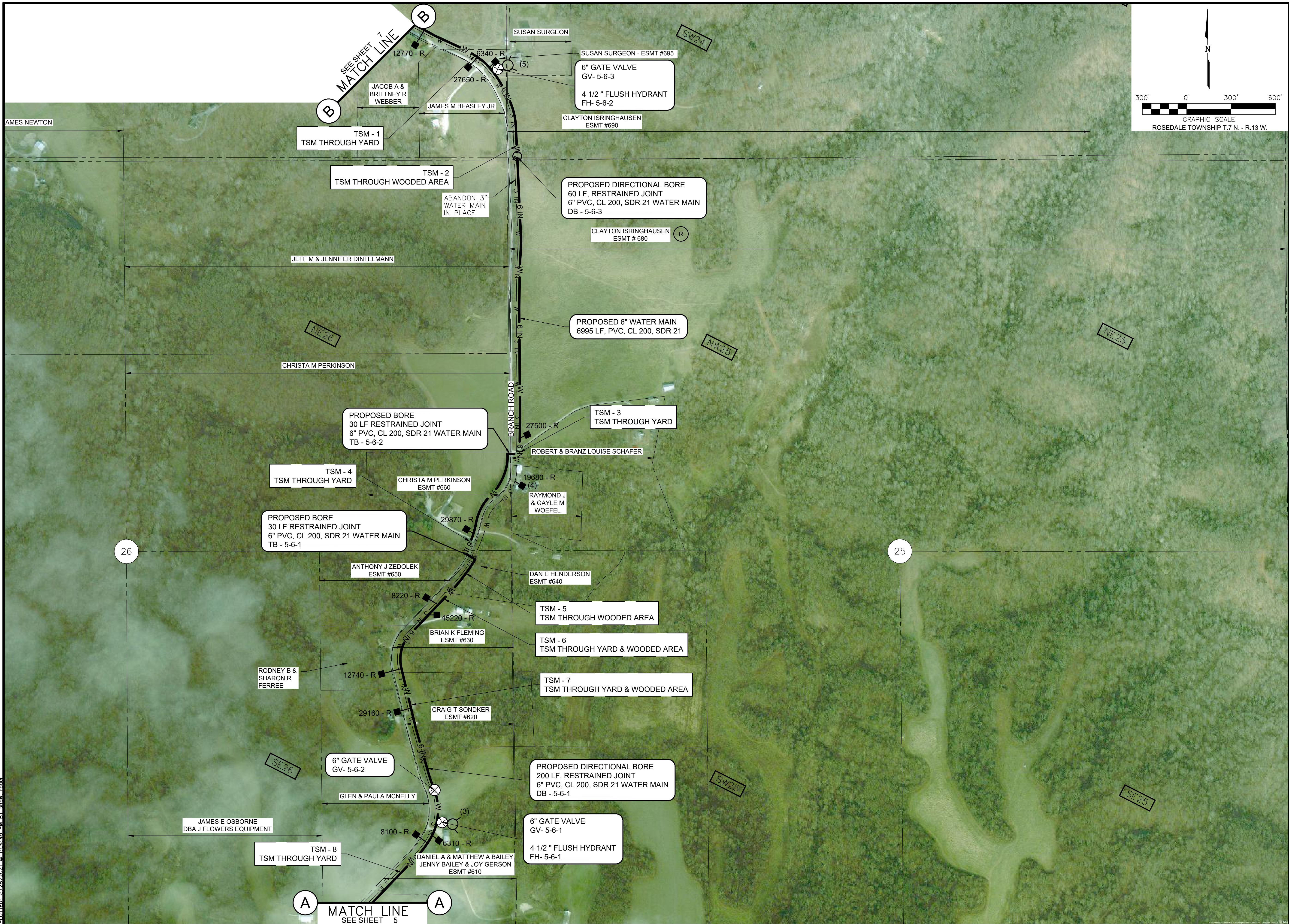
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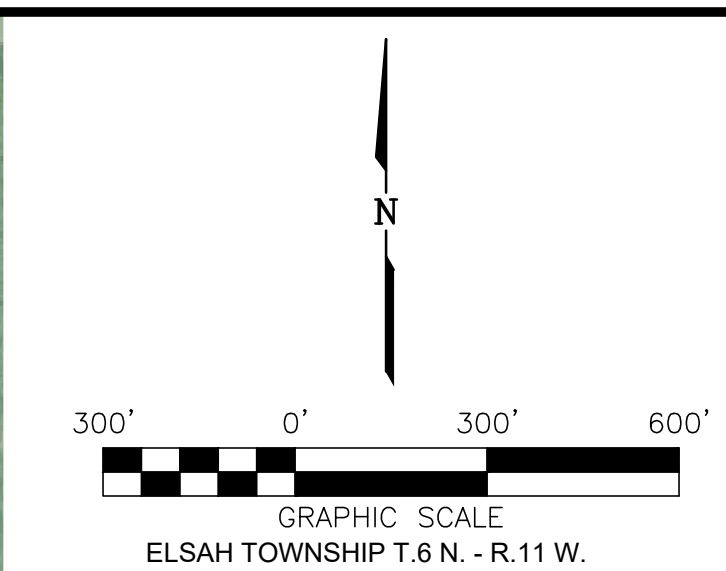
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□ 310A VISION DRIVE COLUMBIA, IL 62236 P: (618) 281-8133 F: (618) 281-8290	
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PHASE V SYSTEM IMPROVEMENTS DISTRIBUTION UPGRADES CONTRACT "J" MEADOW BRANCH PLAN SHEET	
JERSEY COUNTY RURAL WATER COMPANY JERSEY & MACOUPIN COUNTIES, ILLINOIS	
DRAWN BY:	KDN
CHECKED BY:	KEW
APPROVED BY:	SWE
HORIZONTAL SCALE: 1"=300'	
VERTICAL SCALE: N/A	
PROJECT NO. 00139-4100	
DATE: 04/16/21	
SHEET NO. 6	
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PHASE V SYSTEM IMPROVEMENTS
DISTRIBUTION UPGRADES
CONTRACT "J"
ELSAH ROAD

JERSEY COUNTY RURAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: KDN
CHECKED BY: KEW
APPROVED BY: SWE

HORIZONTAL SCALE:
1"=300'

VERTICAL SCALE:
N/A

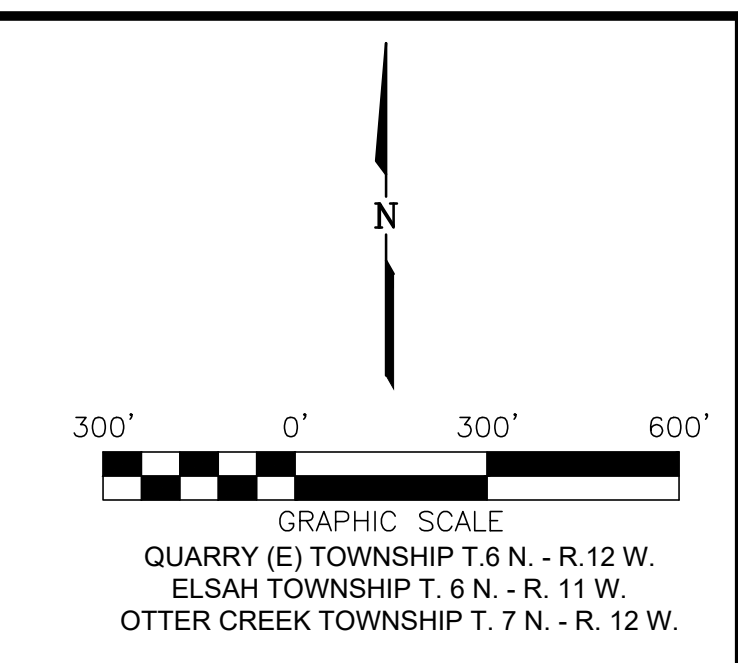
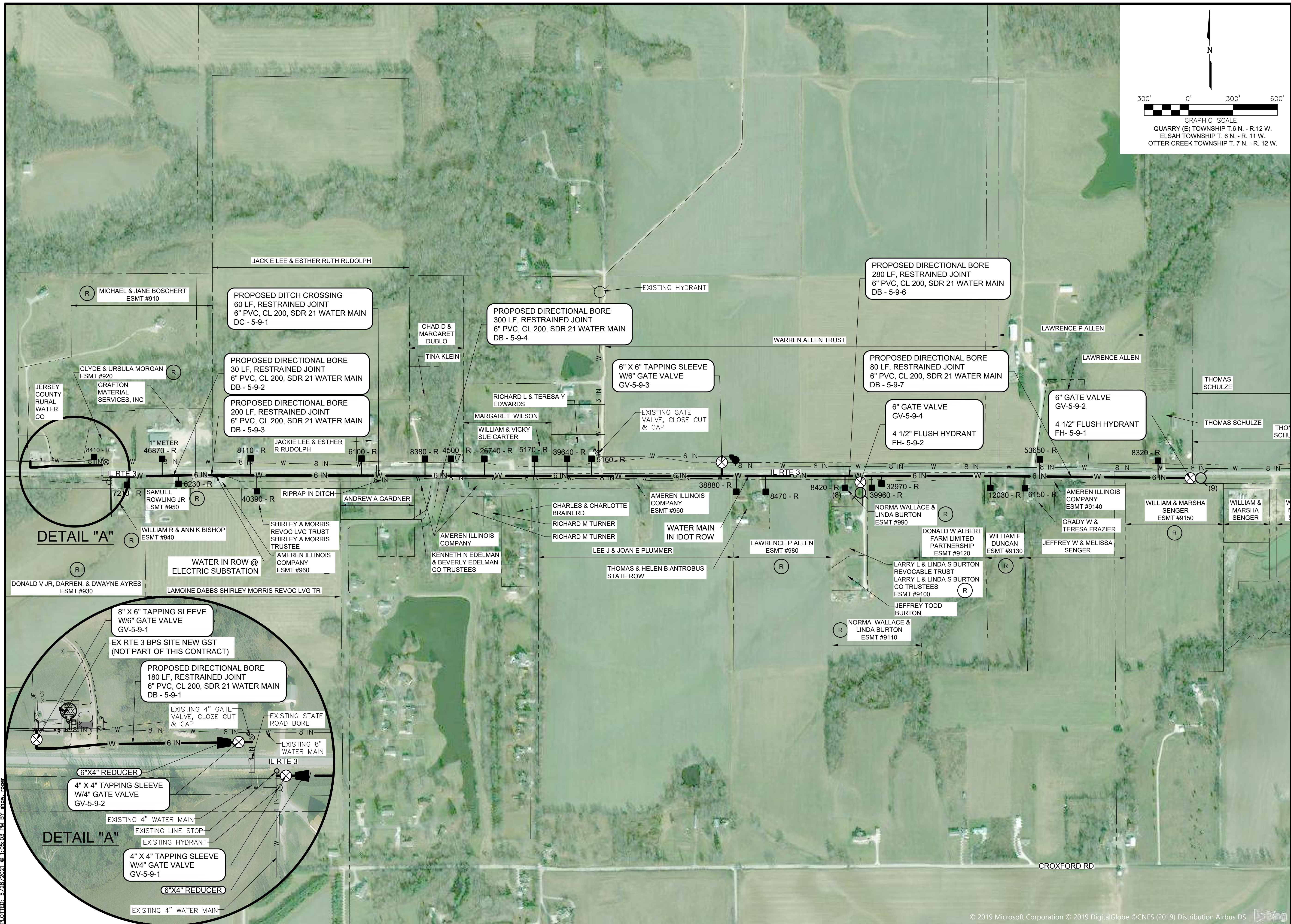
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PHASE V SYSTEM IMPROVEMENTS
DISTRIBUTION UPGRADES
CONTRACT "J"
DOW TO RTE 3 BPS PLAN SHEET

JERSEY COUNTY RURAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: KDN
CHECKED BY: KEW
APPROVED BY: SWE

HORIZONTAL SCALE:
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VERTICAL SCALE:
N/A

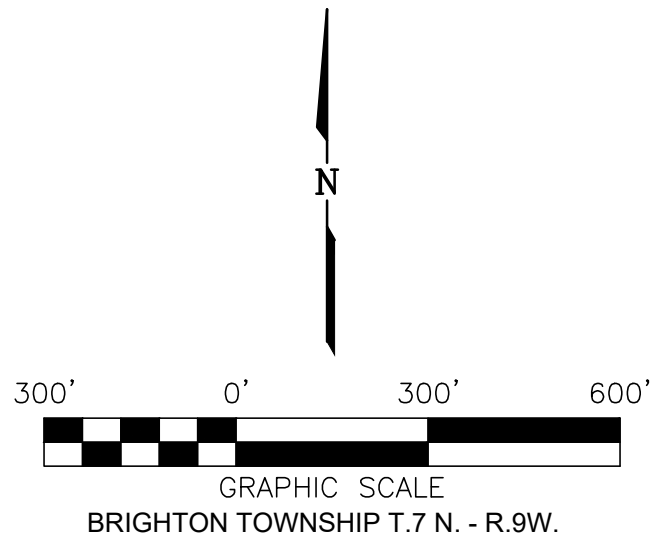
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PHASE V SYSTEM IMPROVEMENTS
DISTRIBUTION UPGRADES
CONTRACT "J"
MILES STATION RD PLAN SHEET

JERSEY COUNTY RURAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: KDN
CHECKED BY: KEW
APPROVED BY: SWE

HORIZONTAL SCALE:
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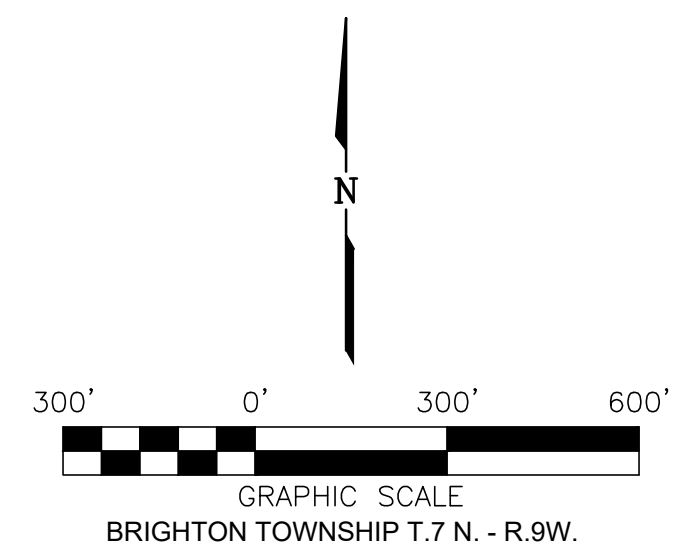
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PROJECT NO.
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DATE:
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PHASE V SYSTEM IMPROVEMENTS
DISTRIBUTION UPGRADES
CONTRACT "J"
MILES STATION RD PLAN SHEET

JERSEY COUNTY RURAL WATER COMPANY
 JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY:	KDN
CHECKED BY:	KEW
APPROVED BY:	SWE

HORIZONTAL SCALE:
1"=300'

VERTICAL SCALE:
N/A

PROJECT NO.
00139-4100

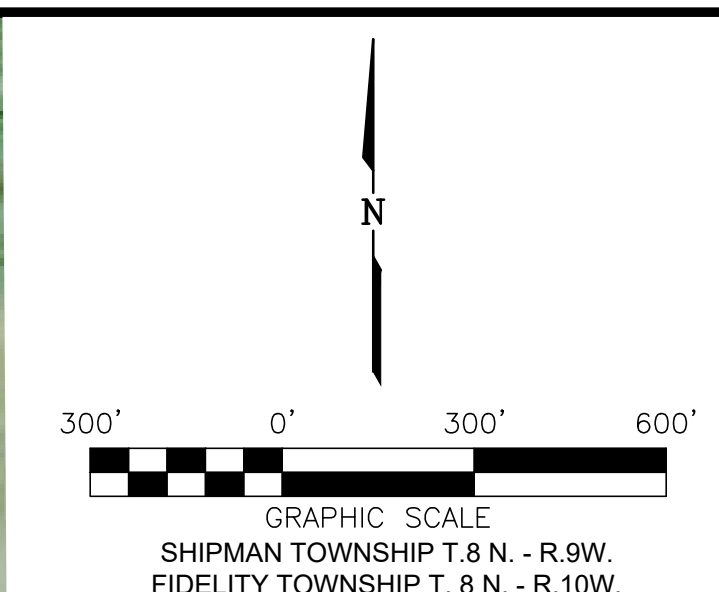
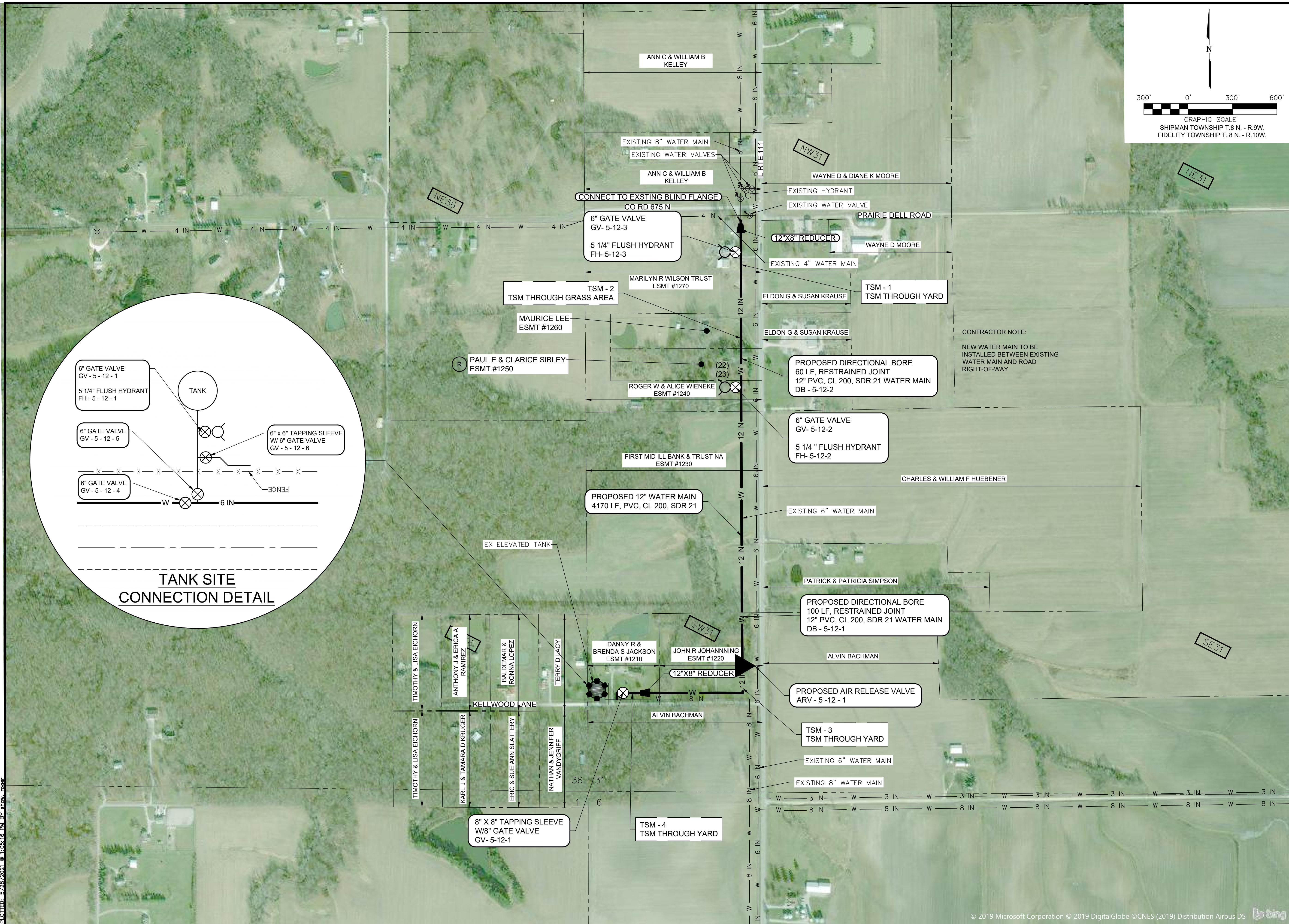
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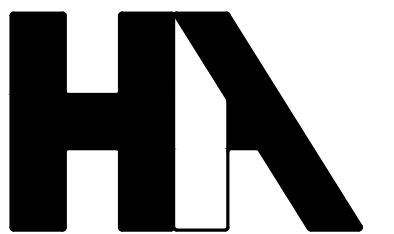
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11 OF 21 SHEETS



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PHASE V SYSTEM IMPROVEMENTS
DISTRIBUTION UPGRADES
CONTRACT "J"
RTE 111 & RTE 16 CONNECTION
PLAN SHEET

JERSEY COUNTY RURAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: KDN
CHECKED BY: KEW
APPROVED BY: SWE

HORIZONTAL SCALE:
1"=300'

VERTICAL SCALE:
N/A

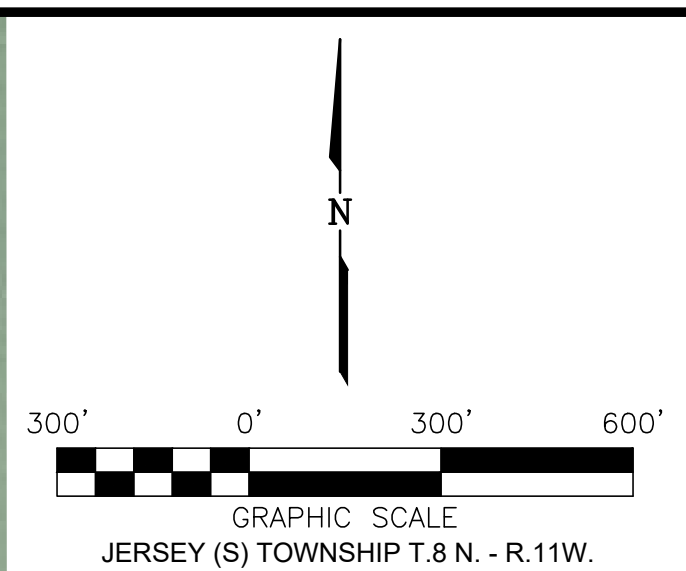
PROJECT NO.
00139-4100

DATE:
04/16/21

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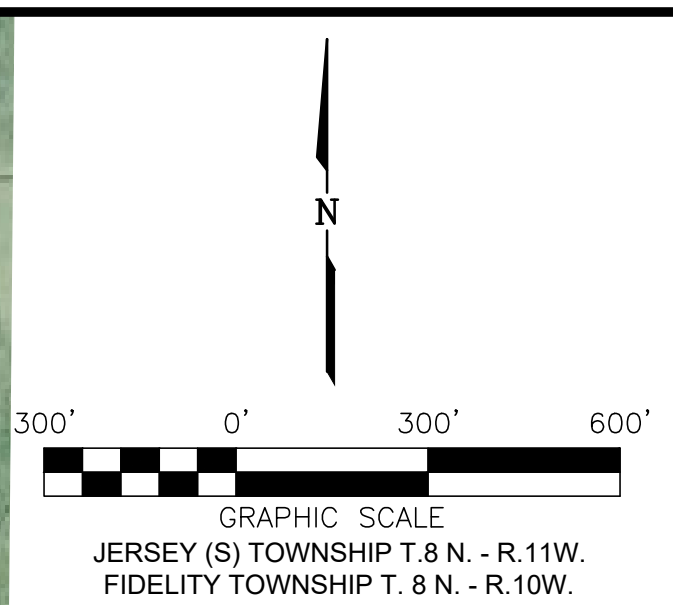
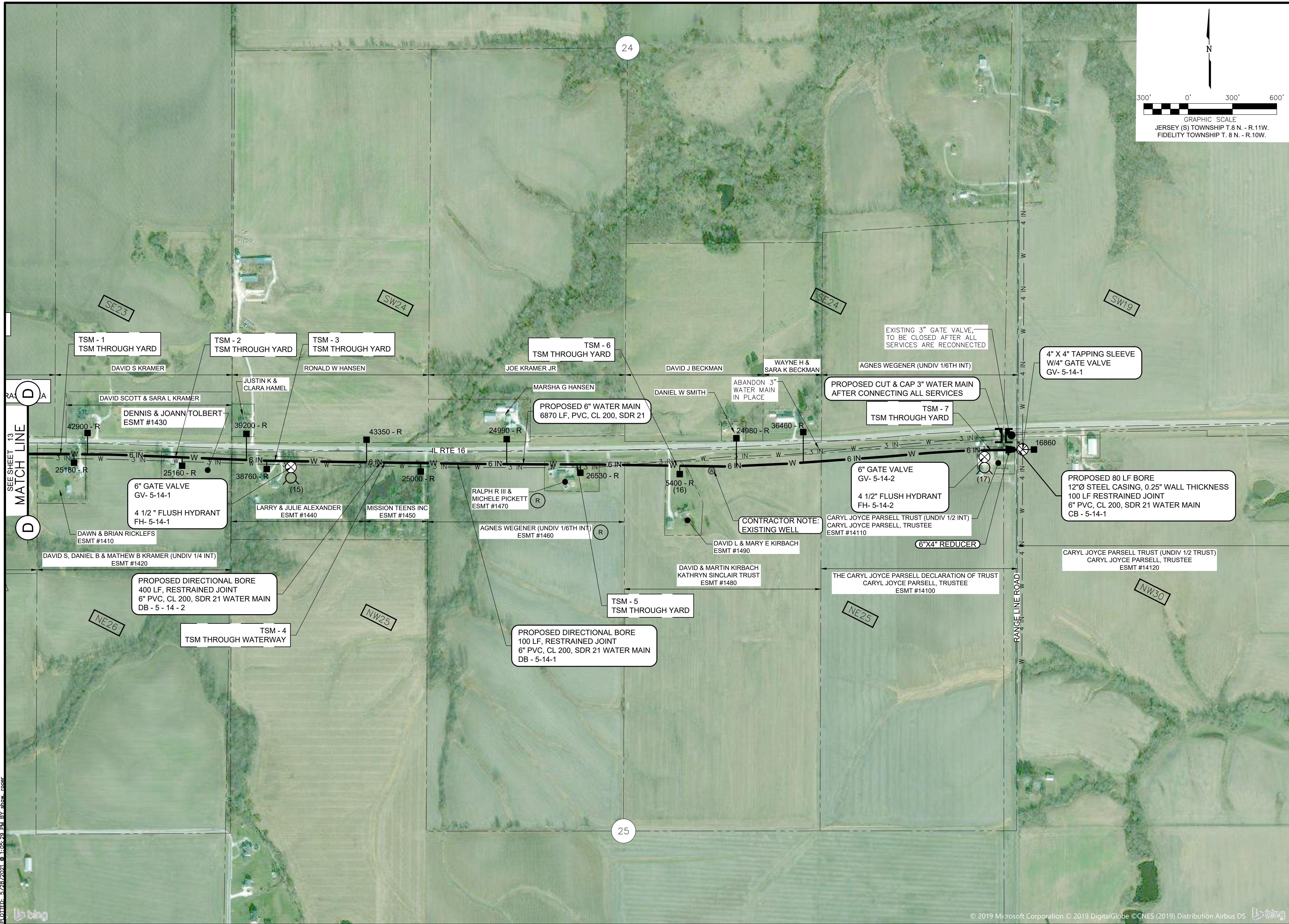
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PHASE V SYSTEM IMPROVEMENTS DISTRIBUTION UPGRADES CONTRACT "J" RTE 16 CHERRY LN TO RANGELINE PLAN SHEET	
JERSEY COUNTY RURAL WATER COMPANY JERSEY & MACOUPIN COUNTIES, ILLINOIS	
DRAWN BY:	KDN
CHECKED BY:	KEW
APPROVED BY:	SWE
HORIZONTAL SCALE: 1"=300'	
VERTICAL SCALE: N/A	
PROJECT NO. 00139-4100	
DATE: 04/16/21	
SHEET NO. 13	
13 OF 21 SHEETS	

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DISTRIBUTION UPGRADES
CONTRACT "J"
RTE 16 CHERRY LN TO RANGELINE
PLAN SHEET

JERSEY COUNTY RURAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: KDN
CHECKED BY: KEW
APPROVED BY: SWE

HORIZONTAL SCALE:
1"=300'

VERTICAL SCALE:
N/A

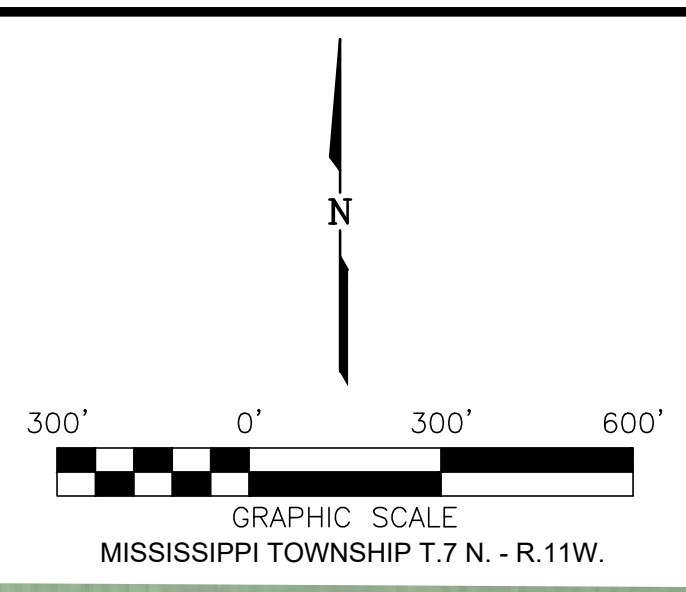
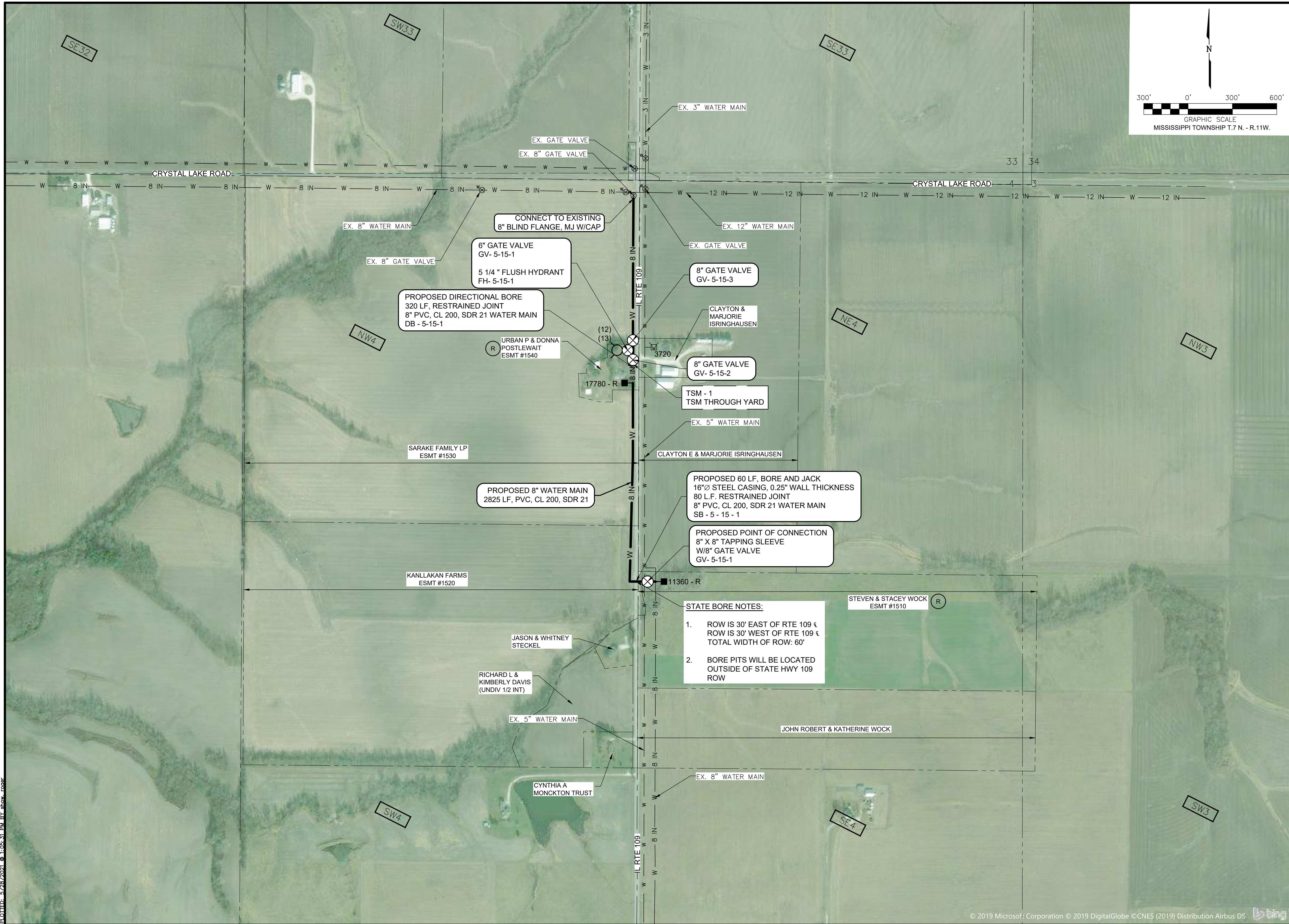
PROJECT NO.
00139-4100


DATE:
04/16/21

SHEET NO.
14

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PHASE V SYSTEM IMPROVEMENTS
DISTRIBUTION UPGRADES
CONTRACT "J"
RTE 109 UPGRADES PLAN SHEET

JERSEY COUNTY RURAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

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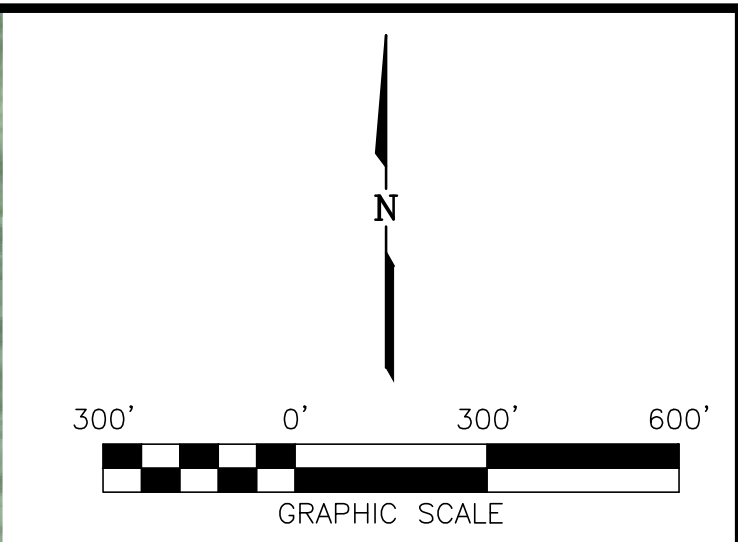
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15

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**PHASE V SYSTEM IMPROVEMENTS
DISTRIBUTION UPGRADES
CONTRACT "J"
CABIN EXTENSION PLAN SHEET**

JERSEY COUNTY RURAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

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16

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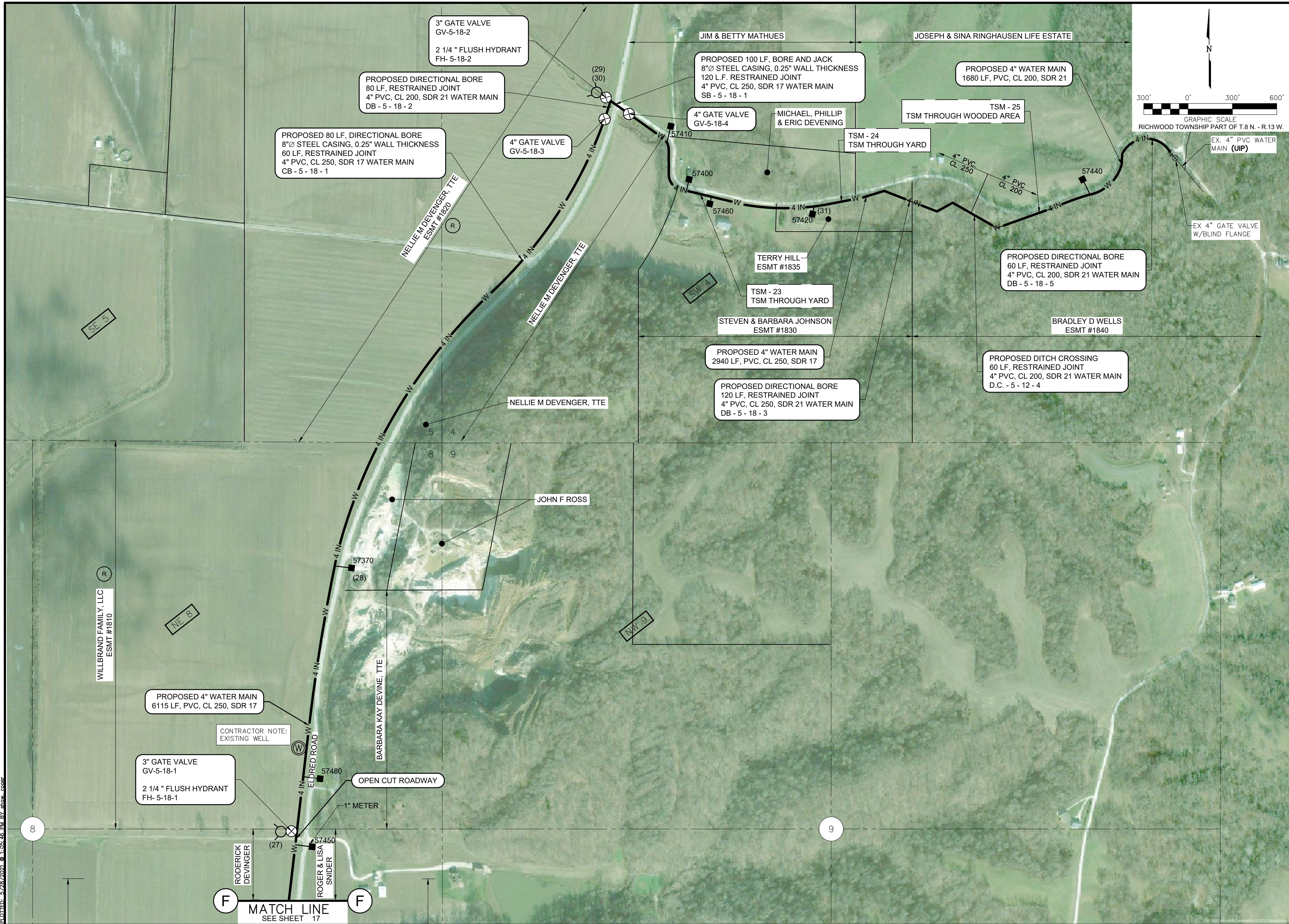
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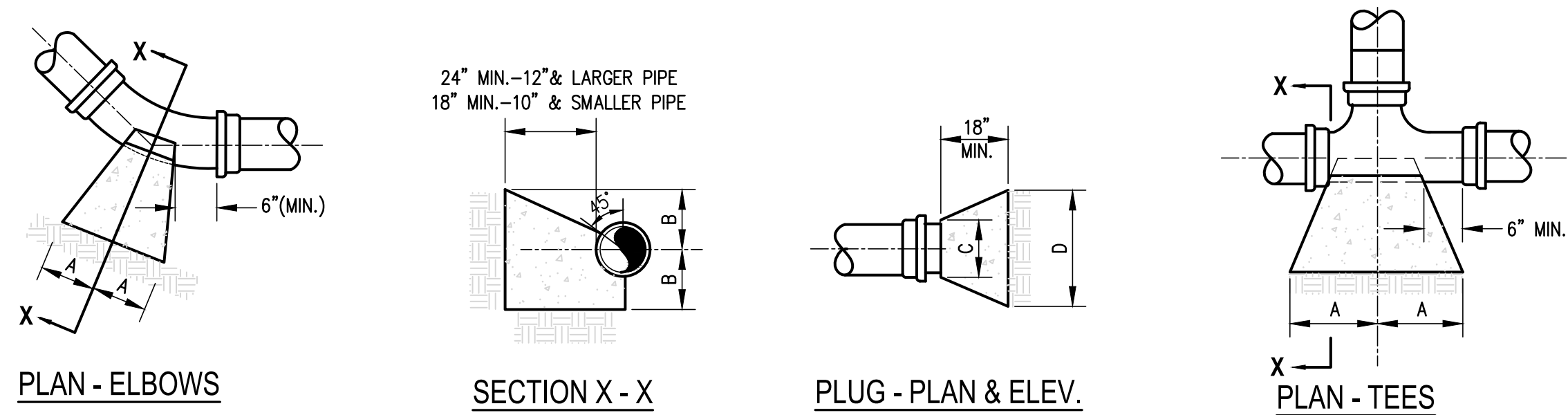
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18

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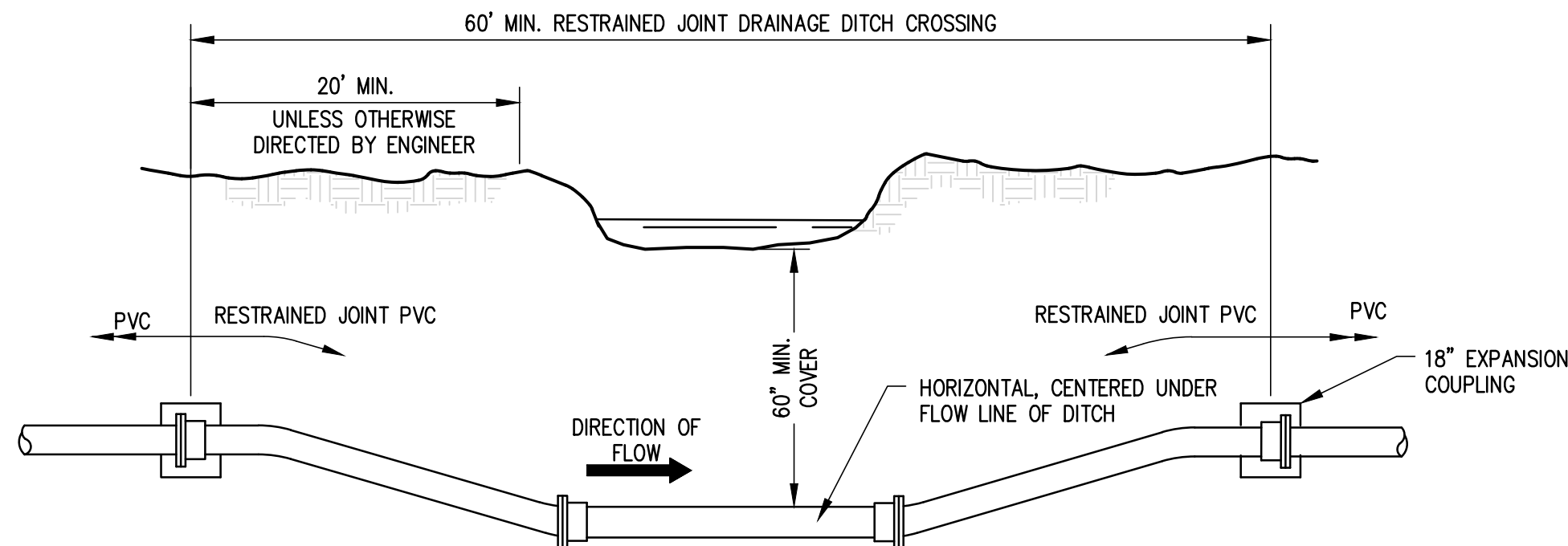


TYPE	SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		TEES		PLUGS	
		A	B	A	B	A	B	A	B	C	D
TYPE I 2000 PSF SOIL	4"	12"	8"	8"	8"	6"	8"	8"	10"	8"	18"
	6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
	10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
	16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

NOTE: BASED ON 100 PSI STATIC PRESSURE PLUS A.W.W.A. WATER HAMMER. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.

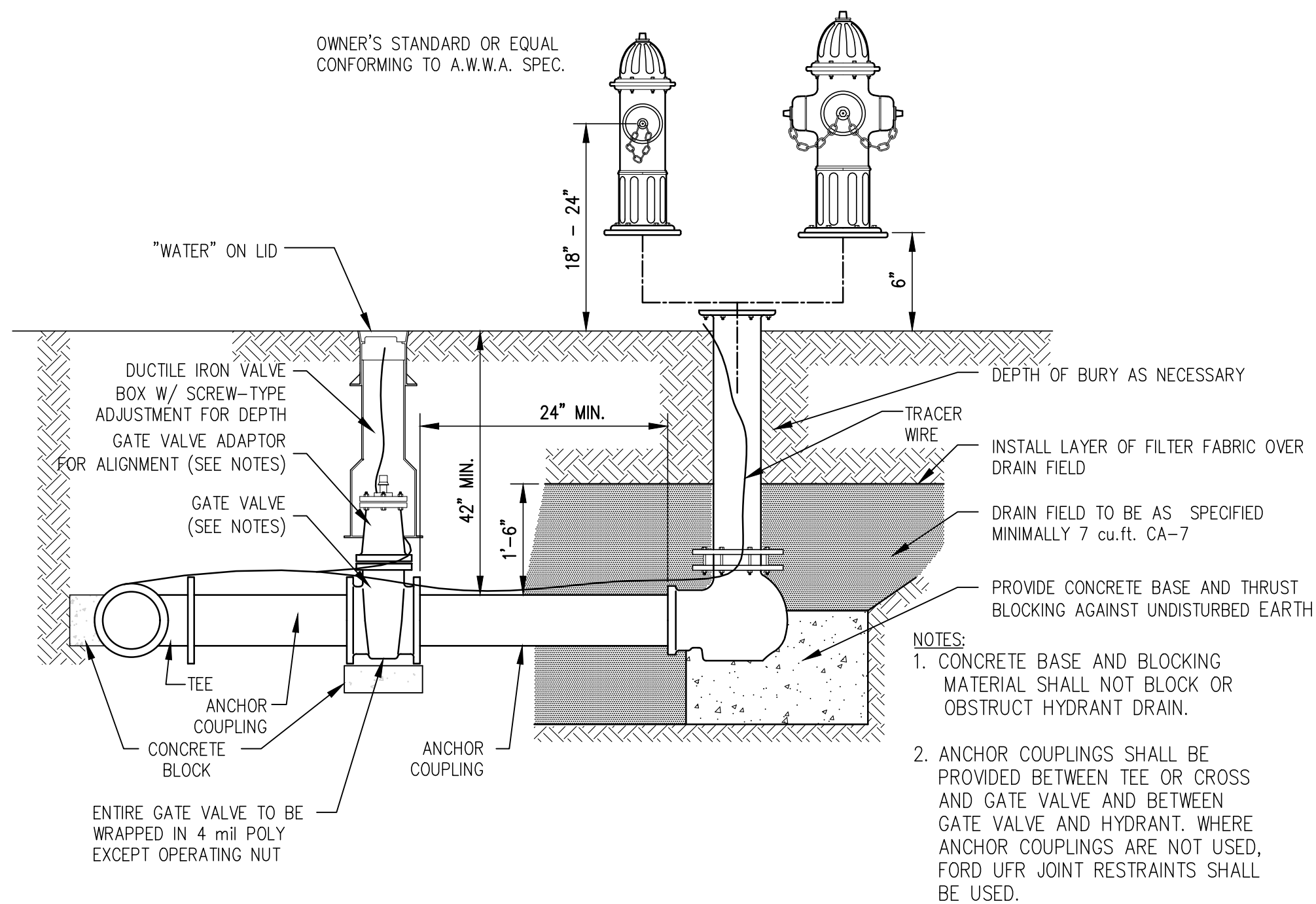
WATER MAIN THRUST BLOCK DETAILS

SCALE: NONE



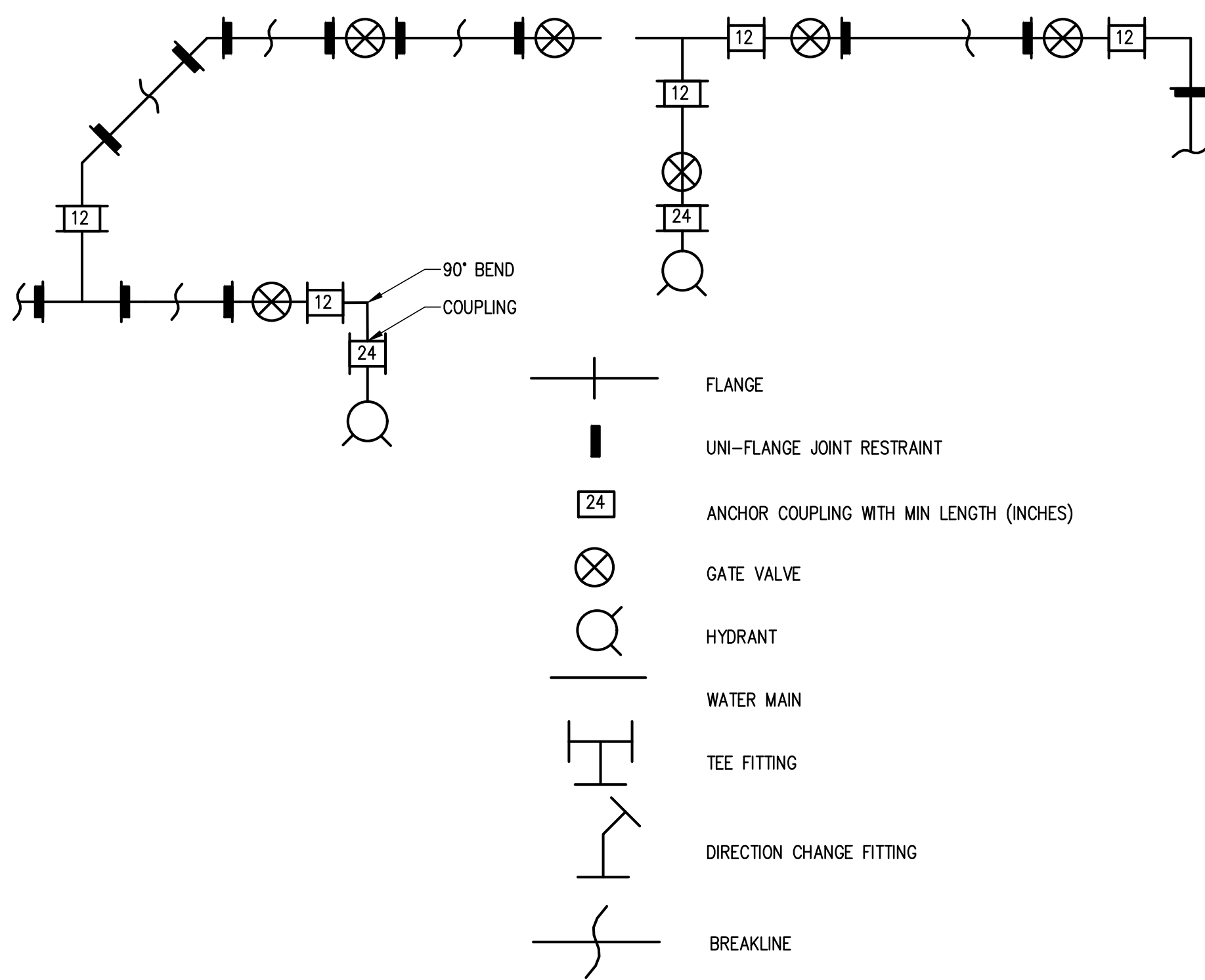
TYPICAL DRAINAGE DITCH DETAIL

SCALE: NONE



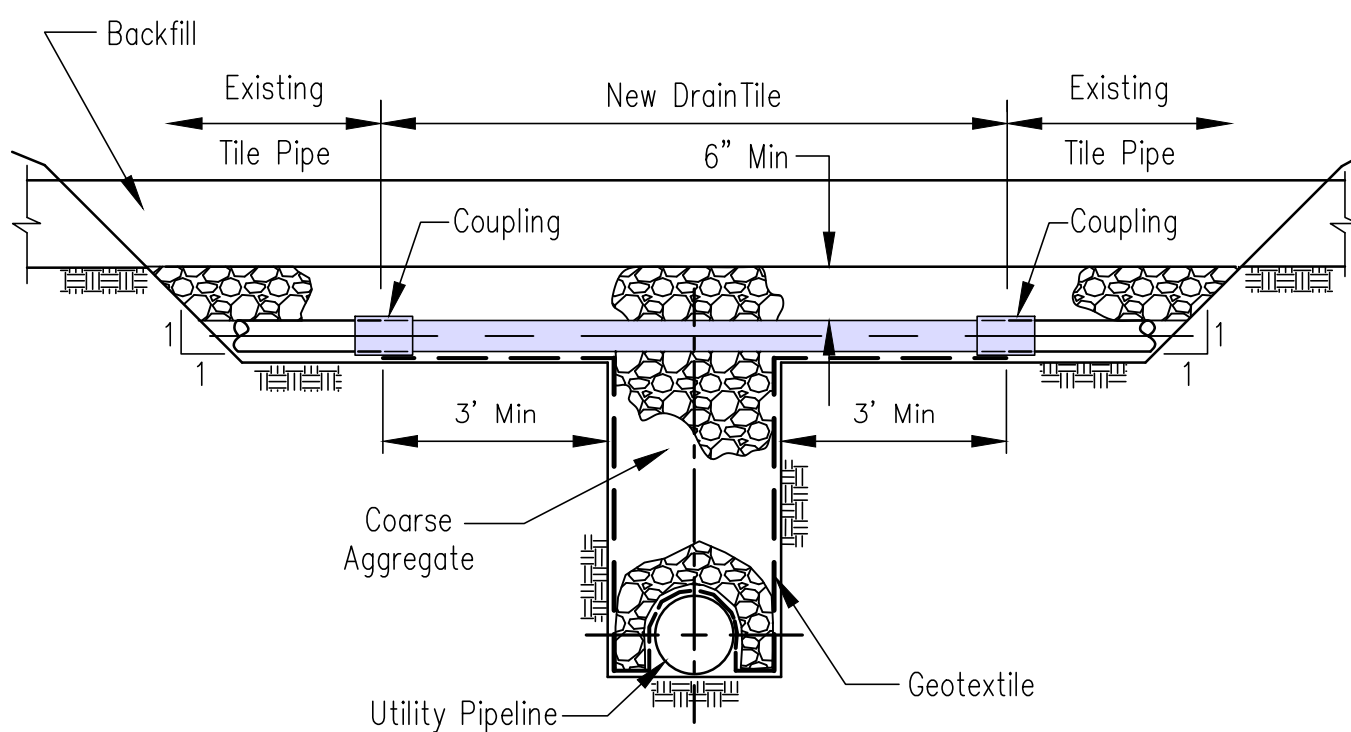
HYDRANT & GATE VALVE DETAIL

SCALE: NONE

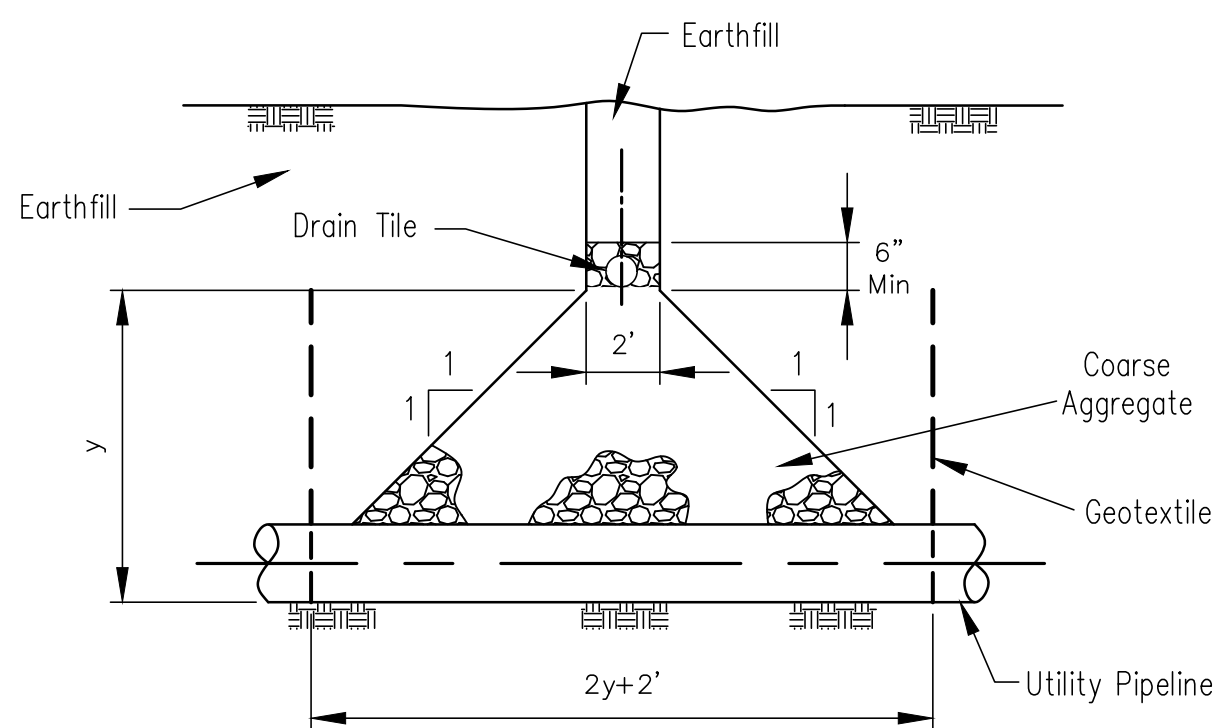


GENERAL FITTING INSTALLATION

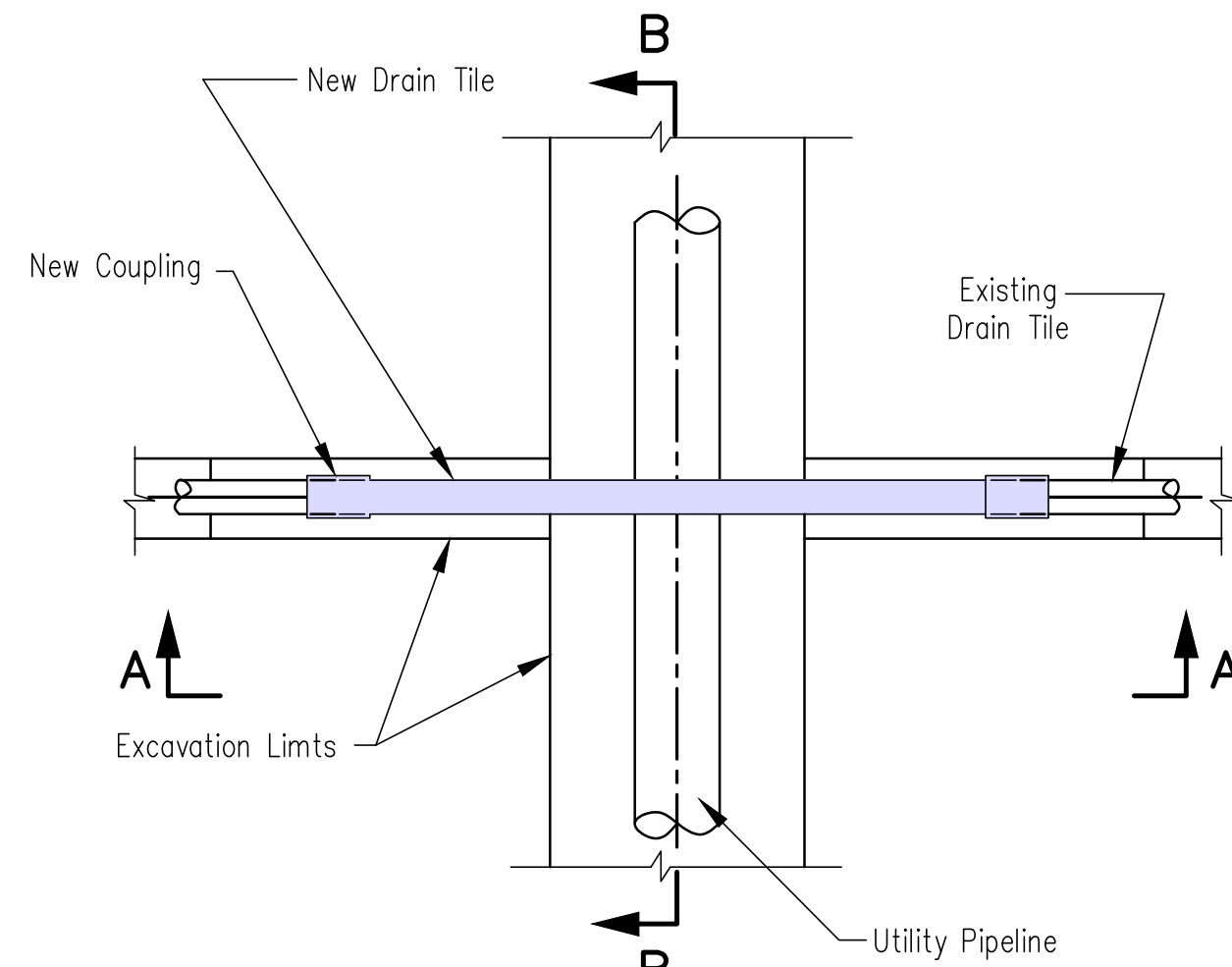
SCALE: NONE



SECTION A-A



SECTION B-B



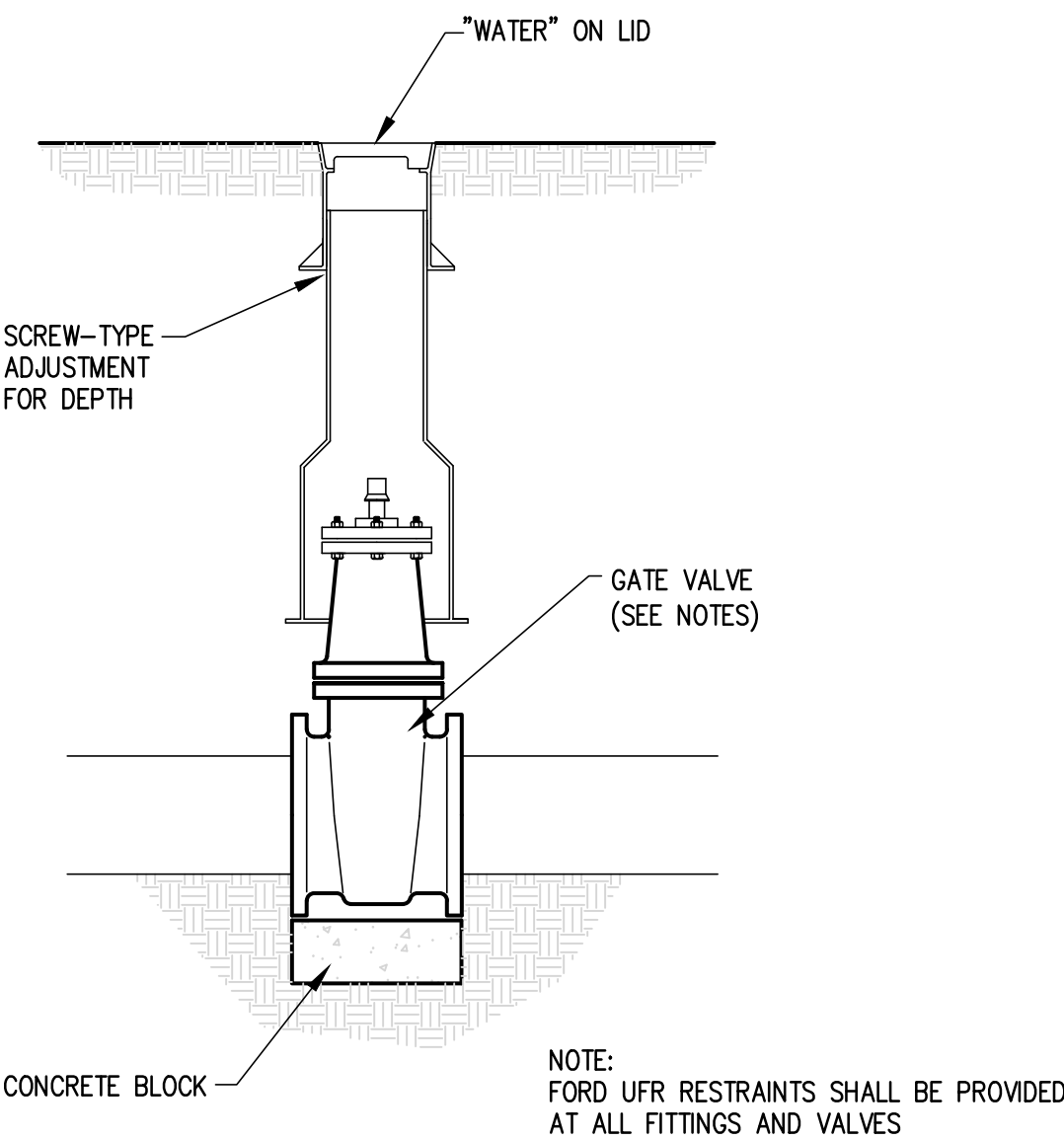
EXCAVATION PLAN

NOTES:

- Coarse aggregate shall be gravel, crushed gravel, pit run gravel or crushed stone and shall conform to the requirements of IDOT Standard Specification for Road and Bridge Construction Article 1004.01 and CA-18 gradation.
- Geotextile (non-woven, needle punched) min. criteria:
Grab Tensile strength (lb) ASTM D 4632 _____ 202
Elongation at failure (%) ASTM D 4632 _____ ≥50
Trapezoidal tear strength (lb) ASTM D 4533 _____ 79
Puncture strength (lb) ASTM D 6241 _____ 433
Ultraviolet light (% retained strength) ASTM 4355 _____ min 50
Apparent opening size (AOS) ASTM D 4751 _____ max 0.22 mm (US sieve size 70)
Permittivity sec⁻¹/ ASTM D 4491 _____ min 0.7
- Any geotextile splices shall overlap a minimum of 18 inches, with upstream or upslope geotextile overlapping the abutting downslope geotextile.
- New tile should be equal to or better than existing tile. Dual Wall polyethylene tubing conforming to ASHTO M-252 or M-294 may be used where existing tile is rigid conduit (clay or concrete).

FIELD TILE REPAIR DETAIL

SCALE: NONE



TYPICAL GATE VALVE INSTALLATION

SCALE: NONE

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PHASE V SYSTEM IMPROVEMENTS
DISTRIBUTION UPGRADES
CONTRACT "J"
WATER DETAILS

JERSEY COUNTY RURAL WATER COMPANY
JERSEY & MACOUPIN COUNTIES, ILLINOIS

DRAWN BY: KDN
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HORIZONTAL SCALE:
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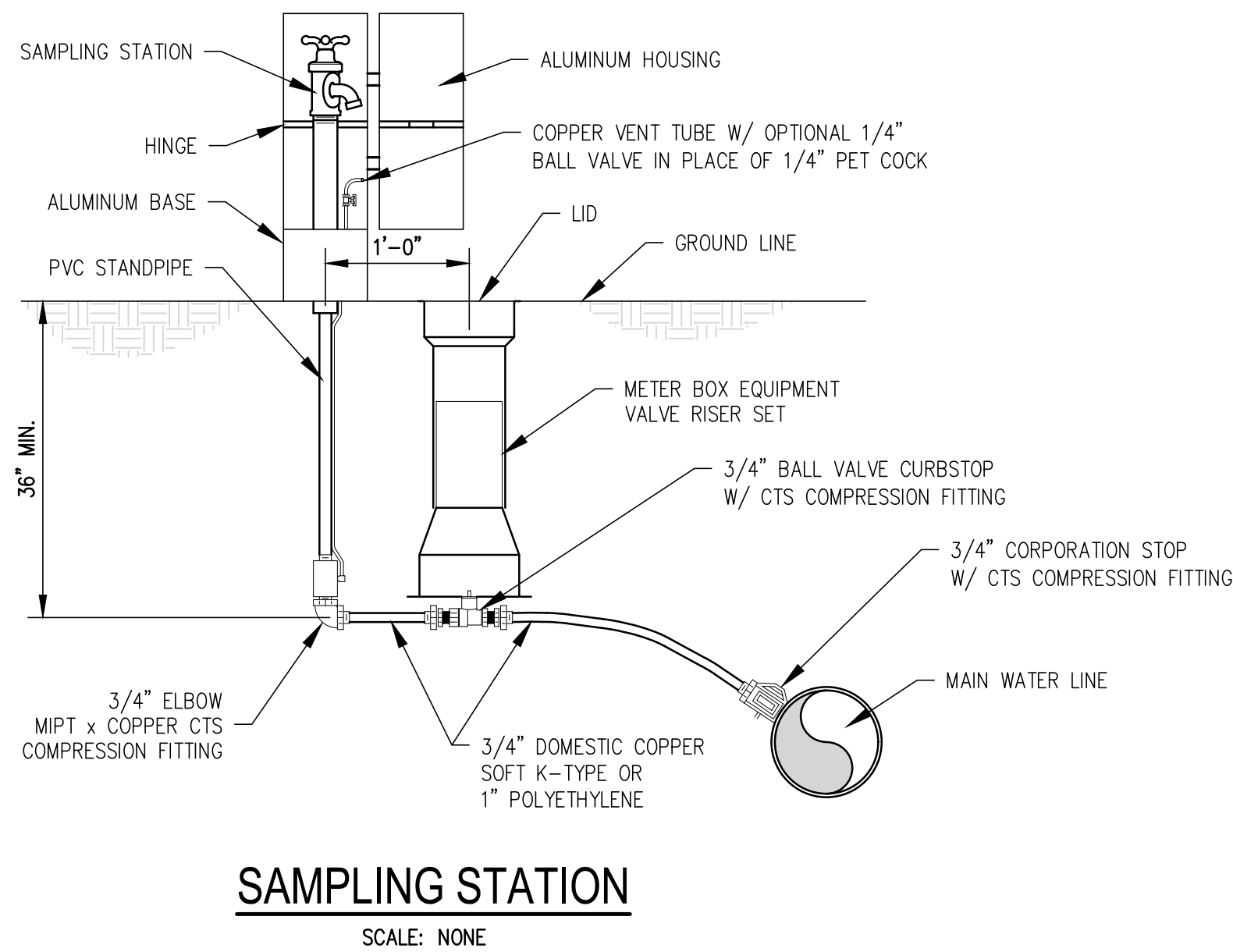
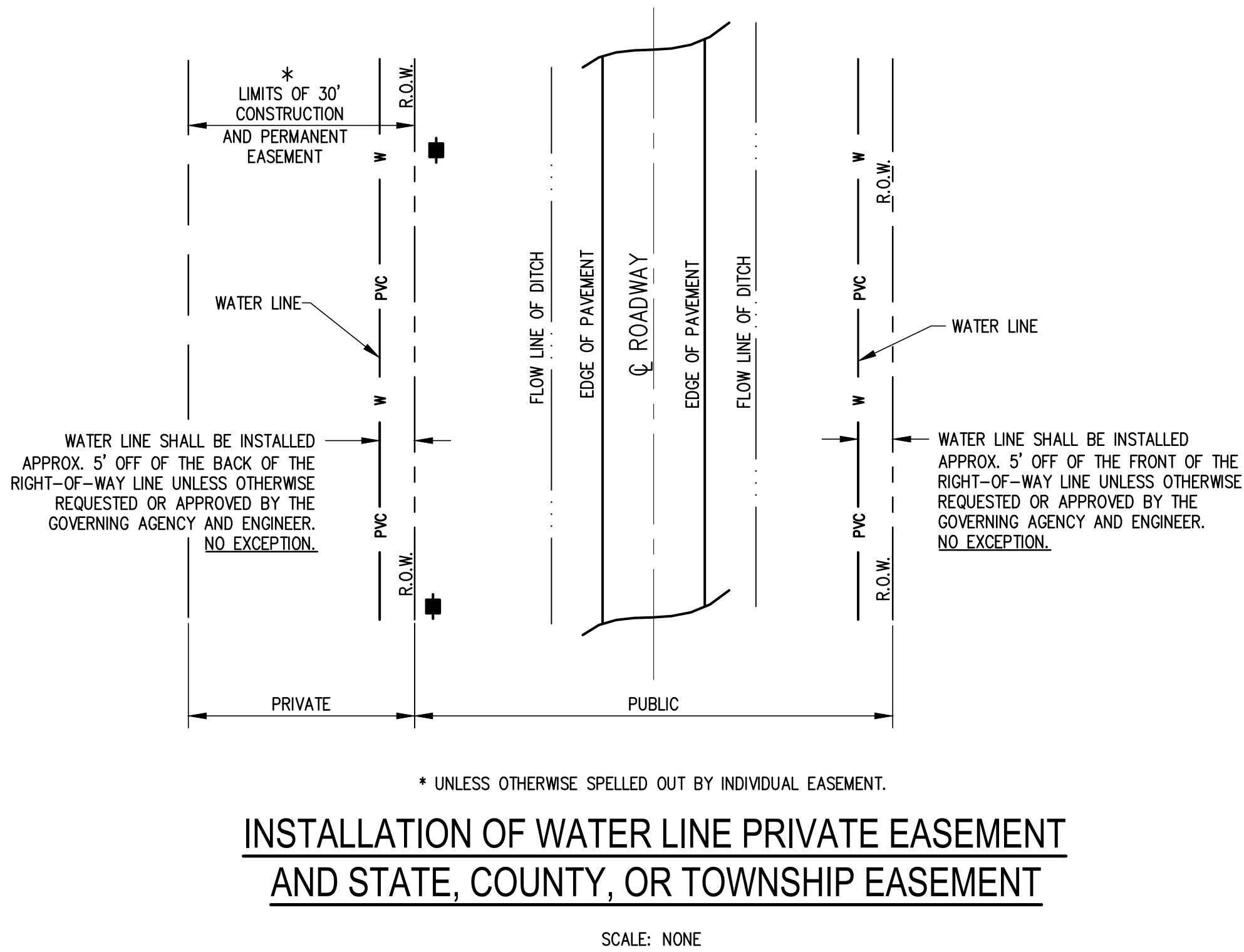
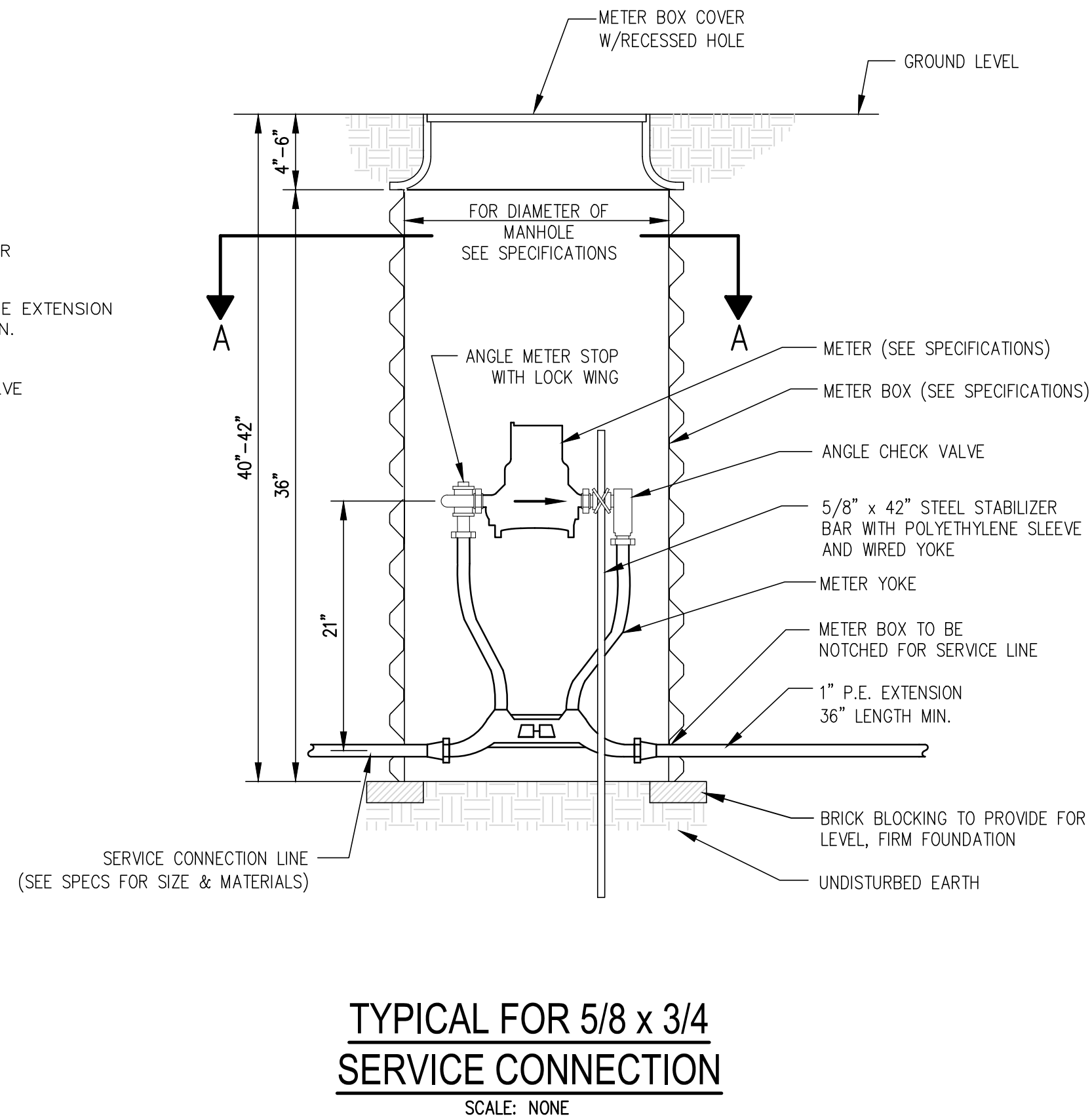
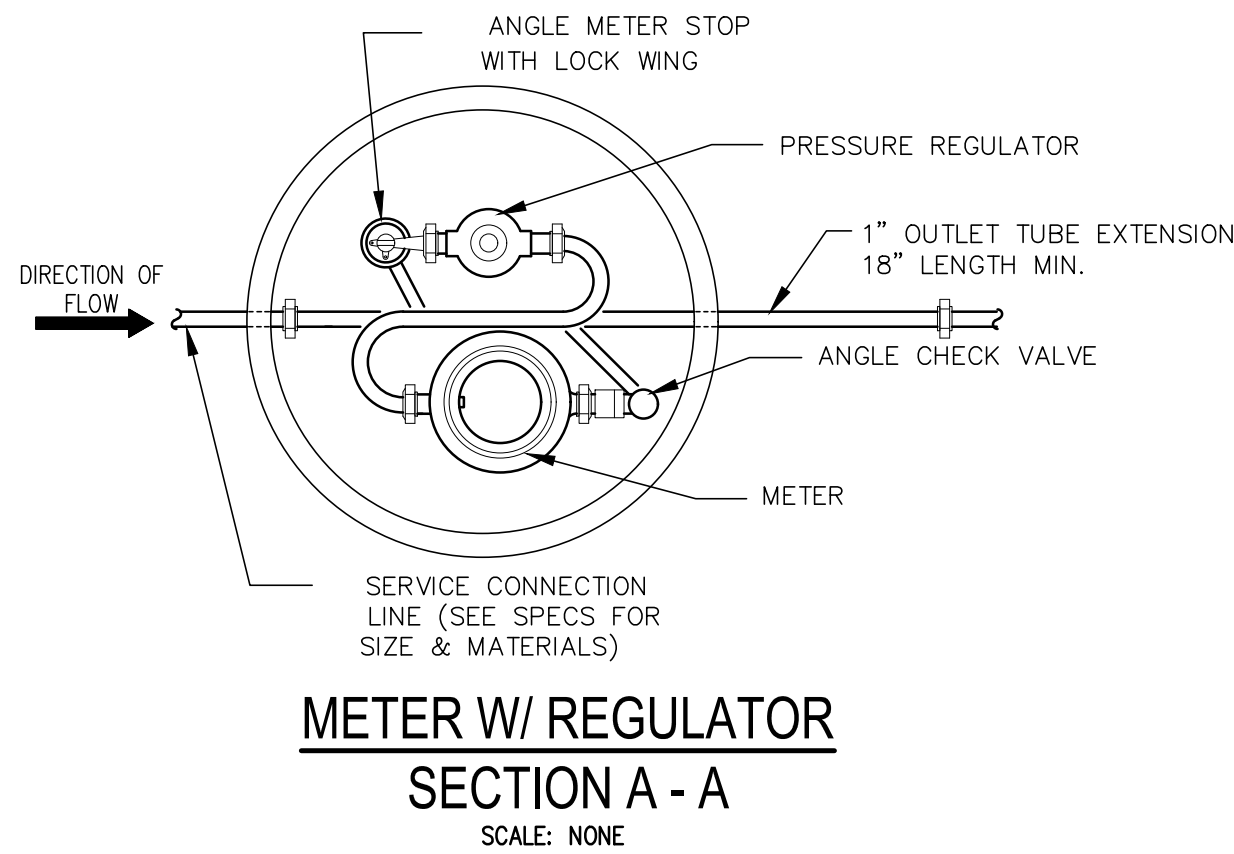
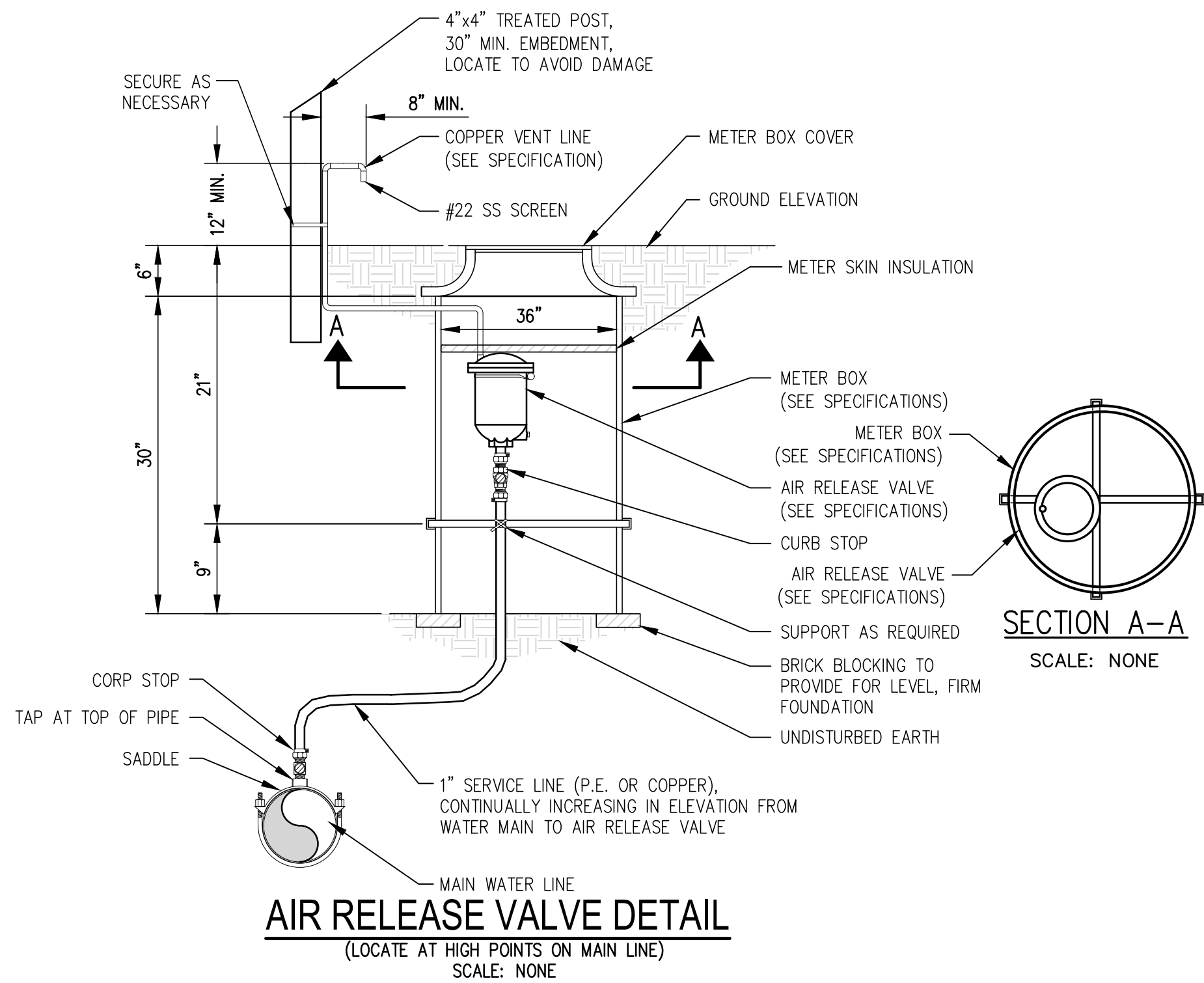
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19

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SITE DESCRIPTION

THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED FOR SITE DEVELOPMENT CONSTRUCTION ACTIVITIES. THE INTENT OF THIS PLAN IS TO CONTROL STORM WATER DISCHARGES AND CERTAIN NON-STORM WATER DISCHARGES ASSOCIATED WITH WATER MAIN CONSTRUCTION. IT IS ANTICIPATED THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES. EACH OF THE FOLLOWING DISCHARGES ARE AUTHORIZED BY THE CONSTRUCTION GENERAL PERMIT AND ARE SPECIFIED HEREIN AND MADE PART OF THIS SWPPP:

1. WATERS USED TO WASH VEHICLES OR CONTROL DUST
2. WATERLINE FLUSHINGS
3. FIRE HYDRANT FLUSHINGS
4. IRRIGATION DRAINAGE
5. ROUTINE PAVEMENT WASHDOWNS WHERE SPILLS OR LEAKS OR TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED)
6. ROUTINE EXTERNAL BUILDING WASHDOWNS WHICH DO NOT USE DETERGENTS
7. AIR CONDITIONING CONDENSATES
8. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS

IF THE CONTRACTOR ANTICIPATES OR EXPERIENCES ANY OTHER NON-STORM WATER DISCHARGES, HE SHALL CONTACT THE ENGINEER TO DISCUSS THE NEED FOR CONTROL MEASURES AND POSSIBLE REVISIONS TO THIS SWPPP.

DESCRIPTION OF BEST MANAGEMENT PRACTICES

EROSION CONTROL FENCING (TEMPORARY)

FENCING SHALL BE PLACED AS SHOWN ON THIS SWPPP. THE FENCING SHALL BE MIRAFI 'ENVIROFENCE' OR APPROVED EQUIVALENT. TEMPORARY EROSION CONTROL FENCING SHALL BE PLACED PRIOR TO BEGINNING GRADING OPERATIONS. EROSION CONTROL FENCING SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

DISTURBED AREAS

DISTURBED AREAS WHERE CONSTRUCTION HAS PERMANENTLY OR TEMPORARILY CEASED MUST BE STABILIZED WITH GRASS OR EROSION MAT WITHIN 14 DAYS OF THE LAST DISTURBANCE. AREAS THAT WILL BE REDISTURBED WITHIN 14 DAYS NEED NOT BE STABILIZED.

RECOMMENDED SEED MIX: 75 % KENTUCKY 31 TALL FESCUE AND 25 % PERENNIAL RYEGRASS @ 4 TO 5 LBS. PER 1,000 S.F. RECOMMENDED FERTILIZER: 10-10-10 @ 10 LBS. PER 1,000 S.F.

TEMPORARY AND PERMANENT STRUCTURAL BMPS

EROSION CONTROL MEASURES SHALL BE ACTIVELY MAINTAINED UNTIL FINAL STABILIZATION OF THE DISTURBED AREA IS ACHIEVED. IF EROSION CONTROL MEASURES ARE REMOVED FOR CONSTRUCTION OR ACCESS PURPOSES, CONTRACTOR SHALL REPLACE ALL ITEMS AT THE END OF EACH DAY.

EROSION CONTROL MEASURES REQUIRE MAINTENANCE, CLEANING AND REPLACEMENT AS NECESSARY. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF A RAINFALL 1/2" OR GREATER.

EXCAVATED TRENCHES AND UTILITY SPOILS SHALL BE BACKFILLED OR STOCKPILED AT THE END OF EACH DAY.

STOCKPILED MATERIALS SHALL BE SURROUNDED BY SILT FENCES. ALTERNATE: A WATER-REPELLENT TARP OR PLASTIC MAY COVER SMALL STOCKPILED AREAS.

ADDITIONAL SITE MANAGEMENT BMPS

SOLID NON-HAZARDOUS CONSTRUCTION WASTE SHALL BE DISPOSED OF IN TRASH DUMPSTERS OR APPROVED EQUIVALENT IN A LOCATION APPROVED BY THE OWNER. POTENTIALLY SOLUBLE OR LEACHABLE SOLID WASTE SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK-PROOF CONTAINERS. SOLID WASTE SHALL BE PROPERLY DISPOSED OF OFF-SITE ON A REGULAR BASIS.

HAZARDOUS WASTE SHALL BE SEGREGATED FROM NON-HAZARDOUS CONSTRUCTION SITE DEBRIS. LIQUID OR SEMI-LIQUID HAZARDOUS WASTE SHALL BE STORED IN APPROPRIATE CONTAINERS (CLOSED DRUMS OR SIMILAR) AND SHALL BE KEPT UNDER COVER. GRANULAR, SOLUBLE OR LEACHABLE HAZARDOUS WASTE MATERIALS SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK-PROOF CONTAINERS. THE OWNER SHALL PROPERLY APPROVE ANY HAZARDOUS WASTE STORAGE AREA LOCATIONS.

HAZARDOUS WASTE SHALL BE PROPERLY DISPOSED OF OFF-SITE ON A REGULAR BASIS BY A REPUTABLE, LICENSED HAZARDOUS WASTE HAULER.

NOTE: IT IS NOT THE INTENT OF THIS SWPPP TO SUPERSEDE OR REPLACE NORMAL SITE ASSESSMENT AND REMEDIATION PROCEDURES CONCERNING HAZARDOUS MATERIALS. SIGNIFICANT SPILLS AND/OR CONTAMINATION WARRANT IMMEDIATE RESPONSE BY TRAINED PROFESSIONALS. SUSPECTED JOB SITE CONTAMINATION SHOULD BE IMMEDIATELY REPORTED TO REGULATORY AUTHORITIES AND PROTECTIVE ACTIONS TAKEN.

FRESH CONCRETE WASTE AND CONCRETE EQUIPMENT WASHDOWNS SHALL BE CONTAINED IN AN AREA APPROVED BY THE OWNER. CONTRACTOR SHALL ENSURE THAT ADEQUATE VEGETATIVE BUFFER IS PRESENT AROUND CONCRETE DISPOSAL AREAS.

ALL WASTE MATERIALS SHALL BE STORED AWAY FROM DRAINAGE DITCHES, SWALES AND DRAINAGE STRUCTURES. WHERE APPROPRIATE, CONTAINMENT BERMS SHALL BE PLACED AROUND WASTE STORAGE AREAS.

CONTRACTOR SHALL CONSTRUCT APPROPRIATE ENTRYWAYS TO PROHIBIT THE TRACKING OF DIRT AND DEBRIS OFF-SITE.

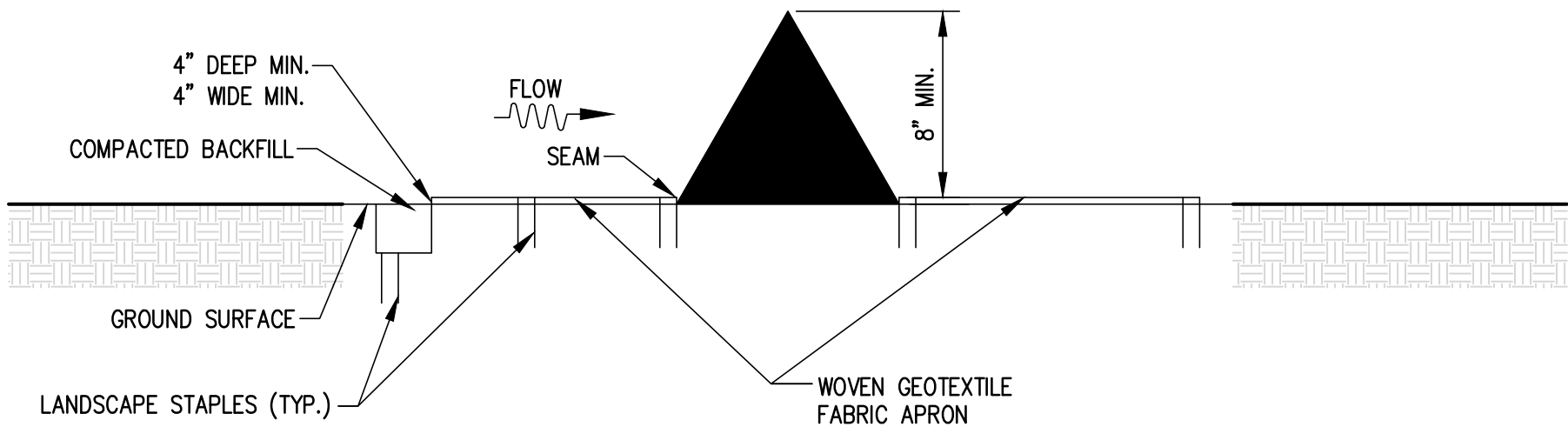
EQUIPMENT MAINTENANCE, REPAIR AND WASHDOWNS SHALL BE PERFORMED OFF-SITE OR IN LOCATIONS APPROVED BY THE OWNER.

A COPY OF THIS SWPPP SHALL BE KEPT ON-SITE FOR THE ENTIRE CONSTRUCTION PERIOD.

PERMANENT STORM WATER MANAGEMENT

ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL GRADE & CONTOURS.

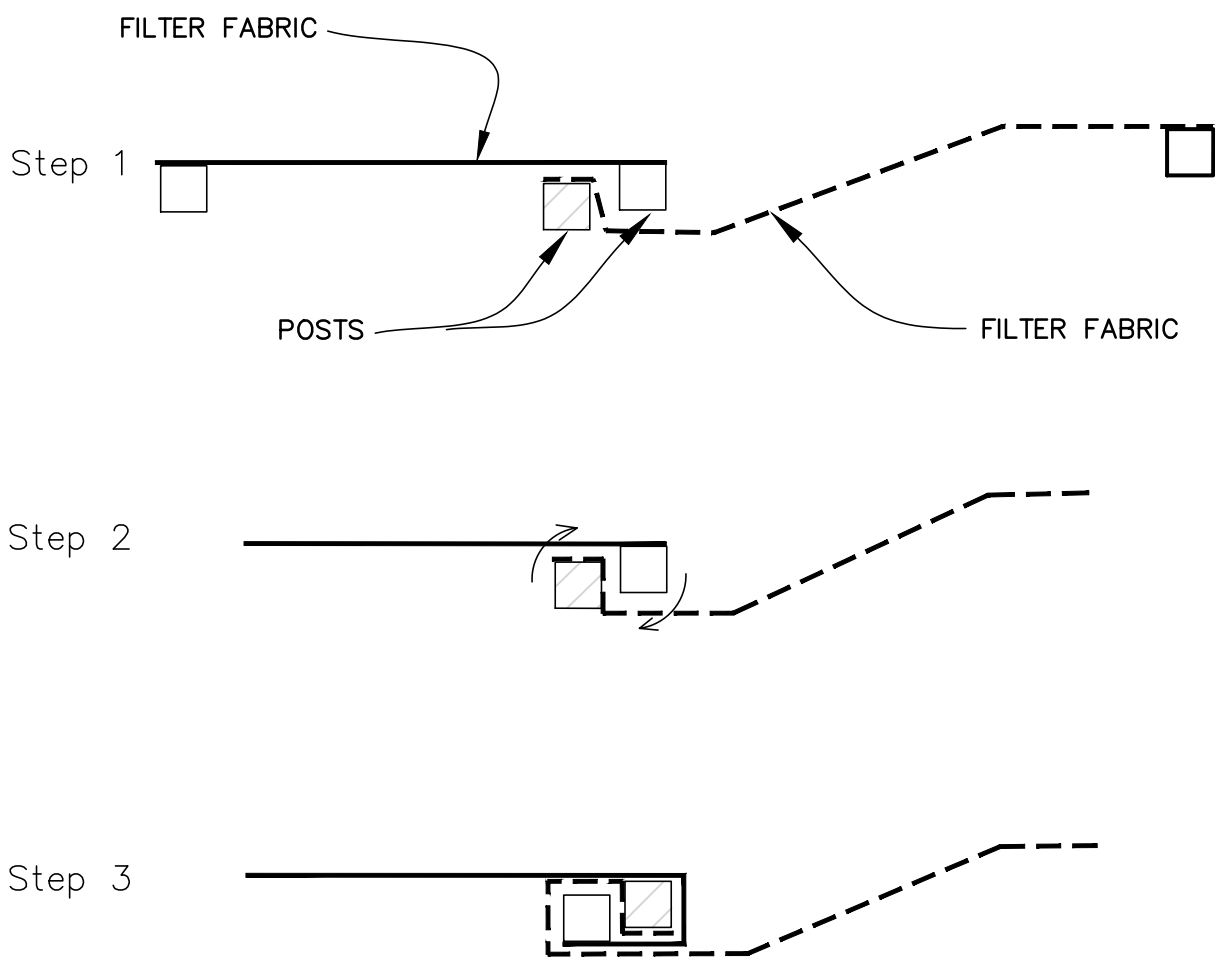
LAND USE WILL NOT CHANGE.



GEOTEXTILE TRIANGULAR DIKE DETAIL

SCALE: NONE

SILT FENCE

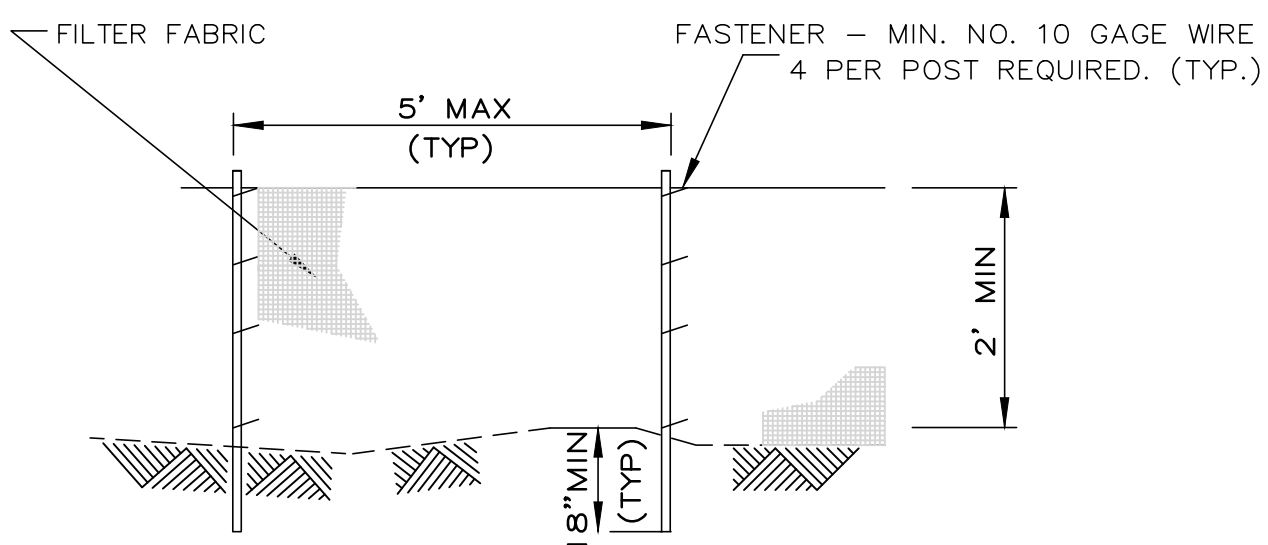


- NOTES:
1. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
 2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
 3. DRIVE BOTH POSTS A MINIMUM OF 18 INCHES INTO THE GROUND AND BURY THE FLAP.

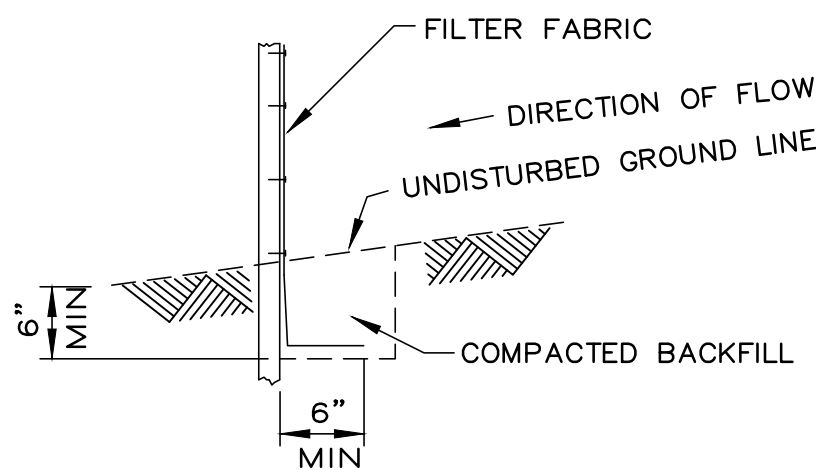
SILT FENCE

SCALE: NONE

SILT FENCE PLAN



ELEVATION



FABRIC ANCHOR DETAIL

- NOTES:
1. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
 2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
 3. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.

SILT FENCE PLAN

SCALE: NONE

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JERSEY & MACOUPIN COUNTIES, ILLINOIS

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